LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Title : SFAM01.0

Signal : TIC: VW029892.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.155 | 40 | 44 | 45 | rBV2 | 548 | 745 | 0.01% | 0.002% |
| 2 | 2.204 | 50 | 52 | 53 | rBV2 | 1322 | 933 | 0.02% | 0.003% |
| 3 | 2.363 | 72 | 78 | 96 | rVB | 62164 | 157354 | 2.57% | 0.473% |
| 4 | 2.899 | 159 | 166 | 184 | rVB | 49161 | 139859 | 2.28% | 0.421% |
| 5 | 4.021 | 338 | 350 | 363 | rBV | 109554 | 345534 | 5.64% | 1.039% |
| 6 | 4.137 | 365 | 369 | 382 | rVB | 16862 | 44934 | 0.73% | 0.135% |
| 7 | 4.381 | 405 | 409 | 410 | rBV2 | 1586 | 2044 | 0.03% | 0.006% |
| 8 | 4.923 | 485 | 498 | 517 | rBV | 27999 | 106233 | 1.73% | 0.319% |
| 9 | 5.082 | 521 | 524 | 528 | rBV5 | 364 | 584 | 0.01% | 0.002% |
| 10 | 5.192 | 539 | 542 | 544 | rBV3 | 386 | 649 | 0.01% | 0.002% |
| 11 | 5.399 | 572 | 576 | 578 | rBV2 | 491 | 612 | 0.01% | 0.002% |
| 12 | 5.783 | 630 | 639 | 640 | rBV3 | 1670 | 3680 | 0.06% | 0.011% |
| 13 | 5.947 | 656 | 666 | 675 | rVV3 | 6686 | 20015 | 0.33% | 0.060% |
| 14 | 6.039 | 678 | 681 | 682 | rBV2 | 529 | 591 | 0.01% | 0.002% |
| 15 | 6.155 | 698 | 700 | 704 | rBV4 | 443 | 647 | 0.01% | 0.002% |
| 16 | 6.234 | 709 | 713 | 714 | rBV3 | 449 | 578 | 0.01% | 0.002% |
| 17 | 6.386 | 736 | 738 | 743 | rVB4 | 491 | 635 | 0.01% | 0.002% |
| 18 | 6.990 | 836 | 837 | 842 | rVB3 | 902 | 865 | 0.01% | 0.003% |
| 19 | 7.081 | 844 | 852 | 857 | rBV | 24118 | 63922 | 1.04% | 0.192% |
| 20 | 7.526 | 921 | 925 | 928 | rBV5 | 480 | 867 | 0.01% | 0.003% |
| 21 | 7.648 | 935 | 945 | 957 | rBV | 176188 | 443447 | 7.24% | 1.334% |
| 22 | 7.911 | 985 | 988 | 989 | rBV3 | 612 | 600 | 0.01% | 0.002% |
| 23 | 8.167 | 1022 | 1030 | 1036 | rBV4 | 1440 | 3547 | 0.06% | 0.011% |
| 24 | 8.276 | 1038 | 1048 | 1067 | rBV2 | 350777 | 1045043 | 17.05% | 3.143% |
| 25 | 8.496 | 1082 | 1084 | 1085 | rBV2 | 820 | 706 | 0.01% | 0.002% |
| 26 | 8.557 | 1089 | 1094 | 1103 | rVB6 | 4369 | 10707 | 0.17% | 0.032% |
| 27 | 8.697 | 1109 | 1117 | 1130 | rVB10 | 3822 | 11840 | 0.19% | 0.036% |
| 28 | 8.843 | 1130 | 1141 | 1155 | rBV | 423792 | 866815 | 14.14% | 2.607% |
| 29 | 9.032 | 1170 | 1172 | 1175 | rBV3 | 635 | 718 | 0.01% | 0.002% |
| 30 | 9.075 | 1175 | 1179 | 1184 | rVB4 | 1784 | 3278 | 0.05% | 0.010% |
| 31 | 9.270 | 1201 | 1211 | 1219 | rBV | 233383 | 484998 | 7.91% | 1.459% |
| 32 | 9.496 | 1245 | 1248 | 1249 | rBV3 | 811 | 980 | 0.02% | 0.003% |
| 33 | 9.605 | 1260 | 1266 | 1272 | rVB7 | 2339 | 4122 | 0.07% | 0.012% |
| 34 | 9.685 | 1275 | 1279 | 1282 | rBV4 | 803 | 1199 | 0.02% | 0.004% |
| 35 | 9.752 | 1284 | 1290 | 1294 | rBV7 | 2619 | 4960 | 0.08% | 0.015% |
| 36 | 9.788 | 1294 | 1296 | 1299 | rVB3 | 791 | 721 | 0.01% | 0.002% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 9.849 | 1300 | 1306 | 1311 | rBV2 | 3881 | 8836 | 0.14% | 0.027% |
| 38 | 9.898 | 1312 | 1314 | 1319 | rVB6 | 1202 | 1533 | 0.03% | 0.005% |
| 39 | 9.959 | 1319 | 1324 | 1327 | rBV3 | 3734 | 6702 | 0.11% | 0.020% |
| 40 | 10.032 | 1330 | 1336 | 1343 | rBV | 117819 | 208476 | 3.40% | 0.627% |
| 41 | 10.203 | 1360 | 1364 | 1369 | rBV6 | 2194 | 4329 | 0.07% | 0.013% |
| 42 | 10.319 | 1375 | 1383 | 1392 | rBV | 482416 | 861520 | 14.06% | 2.591% |
| 43 | 10.502 | 1408 | 1413 | 1419 | rVB5 | 11428 | 21718 | 0.35% | 0.065% |
| 44 | 10.575 | 1419 | 1425 | 1435 | rBV | 75345 | 132449 | 2.16% | 0.398% |
| 45 | 10.703 | 1435 | 1446 | 1451 | rBV | 23727 | 51668 | 0.84% | 0.155% |
| 46 | 10.758 | 1451 | 1455 | 1463 | rVB7 | 3811 | 8165 | 0.13% | 0.025% |
| 47 | 10.843 | 1465 | 1469 | 1475 | rVB6 | 4132 | 7639 | 0.12% | 0.023% |
| 48 | 10.922 | 1475 | 1482 | 1492 | rBV | 96215 | 177384 | 2.89% | 0.533% |
| 49 | 11.026 | 1493 | 1499 | 1500 | rBV6 | 5553 | 9692 | 0.16% | 0.029% |
| 50 | 11.105 | 1508 | 1512 | 1515 | rBV4 | 2823 | 4189 | 0.07% | 0.013% |
| 51 | 11.178 | 1520 | 1524 | 1527 | rBV | 10736 | 14776 | 0.24% | 0.044% |
| 52 | 11.227 | 1527 | 1532 | 1537 | rVB | 21325 | 35070 | 0.57% | 0.105% |
| 53 | 11.282 | 1537 | 1541 | 1544 | rVB6 | 3960 | 5886 | 0.10% | 0.018% |
| 54 | 11.331 | 1545 | 1549 | 1554 | rBV2 | 13914 | 20637 | 0.34% | 0.062% |
| 55 | 11.404 | 1557 | 1561 | 1563 | rBV2 | 7804 | 12240 | 0.20% | 0.037% |
| 56 | 11.507 | 1573 | 1578 | 1583 | rBV2 | 17674 | 29952 | 0.49% | 0.090% |
| 57 | 11.629 | 1590 | 1598 | 1609 | rBV | 561752 | 958417 | 15.64% | 2.882% |
| 58 | 11.727 | 1609 | 1614 | 1618 | rBV | 33796 | 55655 | 0.91% | 0.167% |
| 59 | 11.837 | 1623 | 1632 | 1636 | rBV | 62171 | 138446 | 2.26% | 0.416% |
| 60 | 11.971 | 1650 | 1654 | 1657 | rBV4 | 6940 | 11694 | 0.19% | 0.035% |
| 61 | 12.160 | 1674 | 1685 | 1692 | rBV3 | 87048 | 230237 | 3.76% | 0.692% |
| 62 | 12.245 | 1695 | 1699 | 1704 | rVB | 50507 | 81569 | 1.33% | 0.245% |
| 63 | 12.361 | 1704 | 1718 | 1729 | rBV4 | 100410 | 361718 | 5.90% | 1.088% |
| 64 | 12.459 | 1729 | 1734 | 1738 | rBV | 78827 | 135706 | 2.21% | 0.408% |
| 65 | 12.605 | 1754 | 1758 | 1762 | rBV2 | 28749 | 51100 | 0.83% | 0.154% |
| 66 | 12.690 | 1767 | 1772 | 1778 | rVV | 168235 | 268925 | 4.39% | 0.809% |
| 67 | 12.776 | 1782 | 1786 | 1793 | rVB2 | 53750 | 107827 | 1.76% | 0.324% |
| 68 | 12.861 | 1795 | 1800 | 1802 | rBV4 | 36519 | 63218 | 1.03% | 0.190% |
| 69 | 12.897 | 1802 | 1806 | 1808 | rVV | 138489 | 207958 | 3.39% | 0.625% |
| 70 | 12.940 | 1809 | 1813 | 1818 | rVB | 328480 | 550606 | 8.98% | 1.656% |
| 71 | 13.099 | 1832 | 1839 | 1845 | rBV | 191541 | 379267 | 6.19% | 1.141% |
| 72 | 13.160 | 1845 | 1849 | 1856 | rVB2 | 113033 | 174576 | 2.85% | 0.525% |
| 73 | 13.245 | 1858 | 1863 | 1868 | rBV | 582257 | 893118 | 14.57% | 2.686% |
| 74 | 13.440 | 1890 | 1895 | 1899 | rBV3 | 125484 | 216930 | 3.54% | 0.652% |
| 75 | 13.489 | 1899 | 1903 | 1908 | rVB2 | 68445 | 119172 | 1.94% | 0.358% |
| 76 | 13.556 | 1909 | 1914 | 1917 | rBV | 391690 | 710368 | 11.59% | 2.136% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 13.714 | 1934 | 1940 | 1942 | rBV | 189145 | 305574 | 4.99% | 0.919% |
| 78 | 13.751 | 1942 | 1946 | 1949 | rBV | 486643 | 750220 | 12.24% | 2.256% |
| 79 | 13.849 | 1957 | 1962 | 1970 | rVB2 | 253452 | 567982 | 9.27% | 1.708% |
| 80 | 14.007 | 1984 | 1988 | 1990 | rBV | 130939 | 202122 | 3.30% | 0.608% |
| 81 | 14.031 | 1990 | 1992 | 1997 | rVV | 177173 | 234926 | 3.83% | 0.707% |
| 82 | 14.092 | 1997 | 2002 | 2011 | rVB | 455635 | 737491 | 12.03% | 2.218% |
| 83 | 14.202 | 2014 | 2020 | 2026 | rBV2 | 161352 | 355212 | 5.80% | 1.068% |
| 84 | 14.330 | 2038 | 2041 | 2045 | rBV2 | 74228 | 114377 | 1.87% | 0.344% |
| 85 | 14.385 | 2046 | 2050 | 2052 | rVV5 | 115323 | 193818 | 3.16% | 0.583% |
| 86 | 14.409 | 2052 | 2054 | 2057 | rVV | 153844 | 218905 | 3.57% | 0.658% |
| 87 | 14.452 | 2057 | 2061 | 2065 | rVV | 257302 | 384691 | 6.28% | 1.157% |
| 88 | 14.495 | 2065 | 2068 | 2072 | rVV3 | 112518 | 150186 | 2.45% | 0.452% |
| 89 | 14.543 | 2072 | 2076 | 2082 | rVB5 | 72832 | 159806 | 2.61% | 0.481% |
| 90 | 14.684 | 2094 | 2099 | 2103 | rBV | 211574 | 340886 | 5.56% | 1.025% |
| 91 | 14.793 | 2111 | 2117 | 2125 | rBV4 | 425359 | 1174028 | 19.16% | 3.531% |
| 92 | 14.867 | 2126 | 2129 | 2136 | rVV2 | 227780 | 375839 | 6.13% | 1.130% |
| 93 | 14.946 | 2137 | 2142 | 2149 | rVB2 | 310890 | 517376 | 8.44% | 1.556% |
| 94 | 15.056 | 2155 | 2160 | 2172 | rVB2 | 226175 | 497227 | 8.11% | 1.495% |
| 95 | 15.171 | 2174 | 2179 | 2185 | rVB2 | 120490 | 258946 | 4.22% | 0.779% |
| 96 | 15.312 | 2199 | 2202 | 2204 | rBV2 | 100570 | 144757 | 2.36% | 0.435% |
| 97 | 15.354 | 2204 | 2209 | 2219 | rVB | 2425393 | 4314198 | 70.39% | 12.975% |
| 98 | 15.647 | 2253 | 2257 | 2261 | rBV2 | 99259 | 174124 | 2.84% | 0.524% |
| 99 | 16.427 | 2378 | 2385 | 2398 | rVB | 2818141 | 6129013 | 100.00% | 18.433% |
| 100 | 16.635 | 2411 | 2419 | 2429 | rVB | 1689106 | 3833984 | 62.55% | 11.531% |

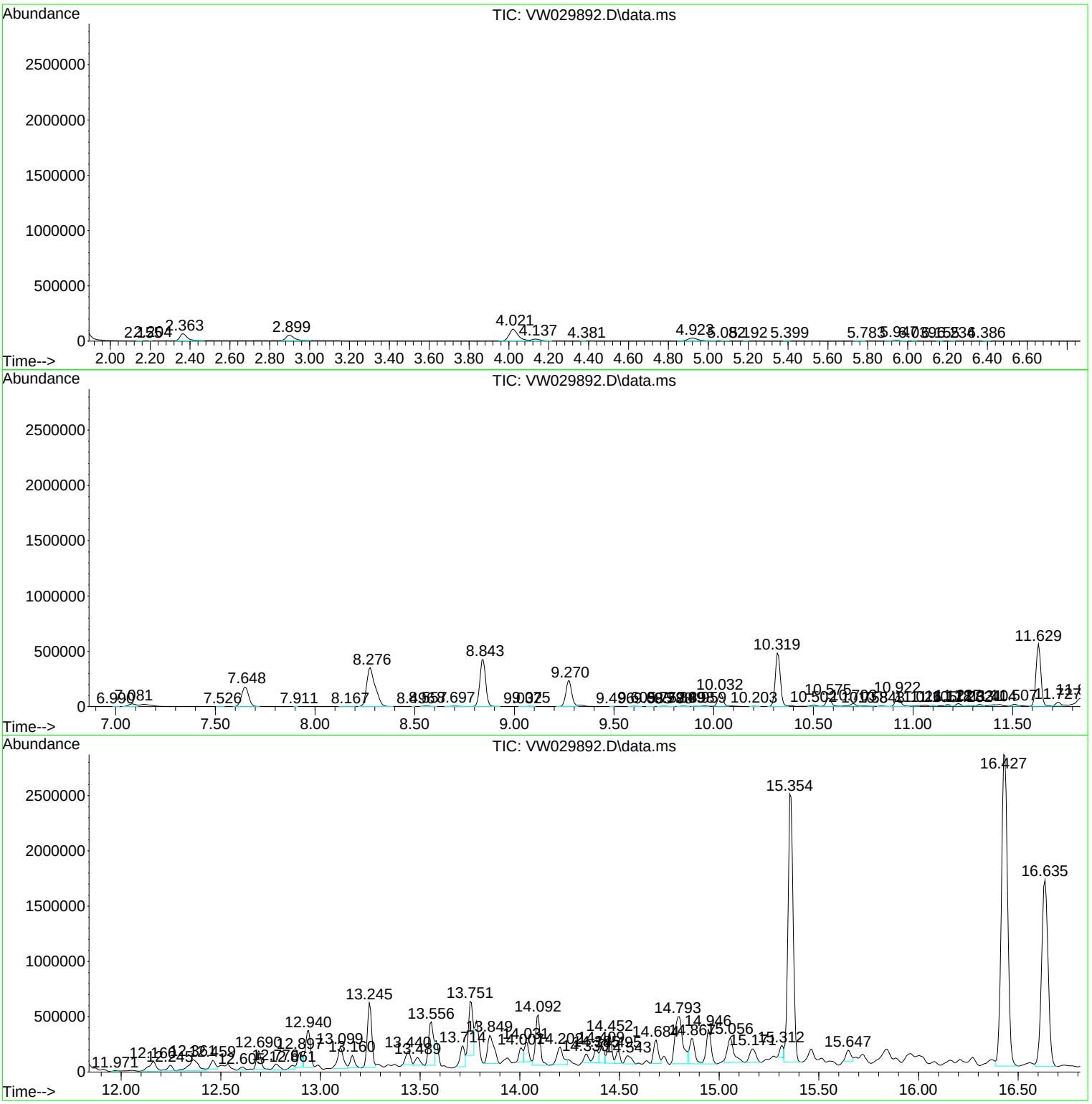
Sum of corrected areas: 33250018

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

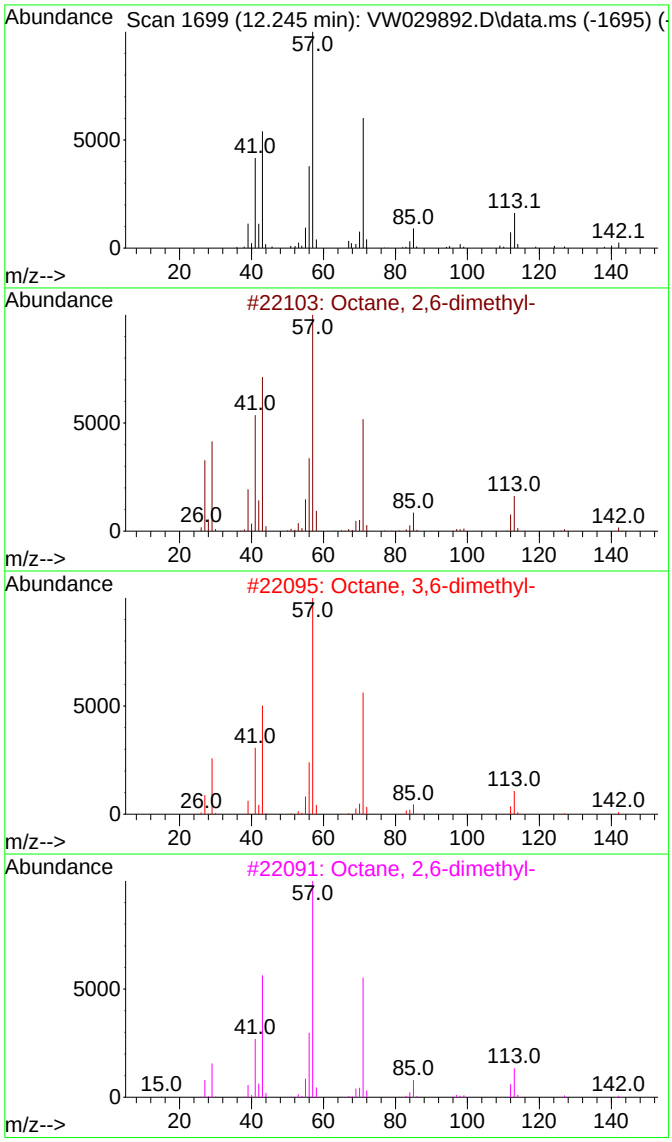
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

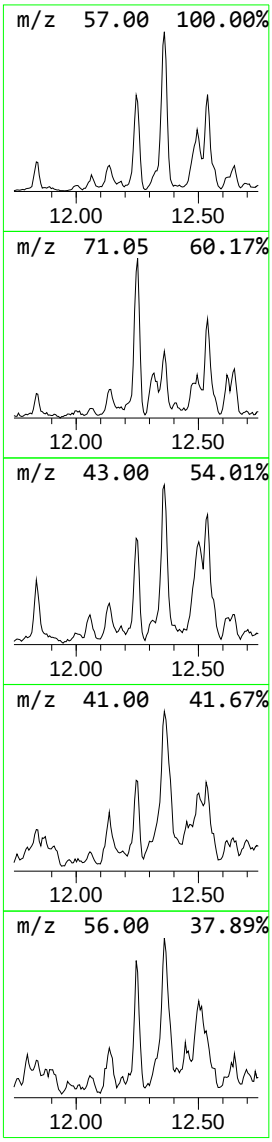
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.245 | 2.13 ug/L | 81569 | Chlorobenzene-d5 | 11.629 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 91 |
| 2 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 87 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 86 |
| 4 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 78 |
| 5 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

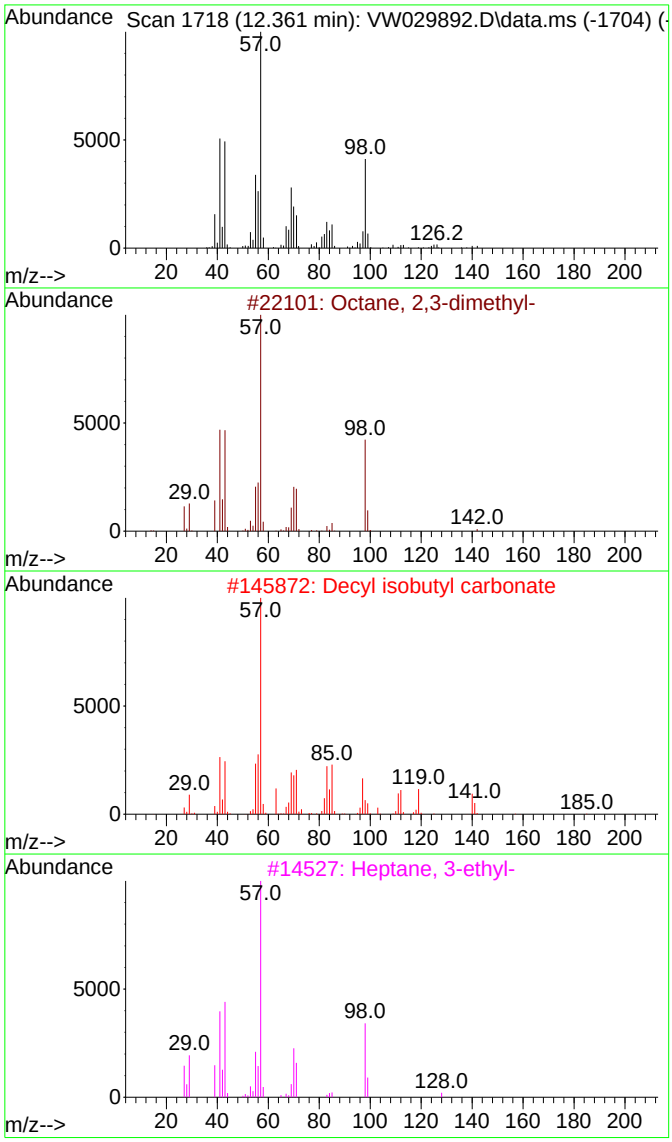
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

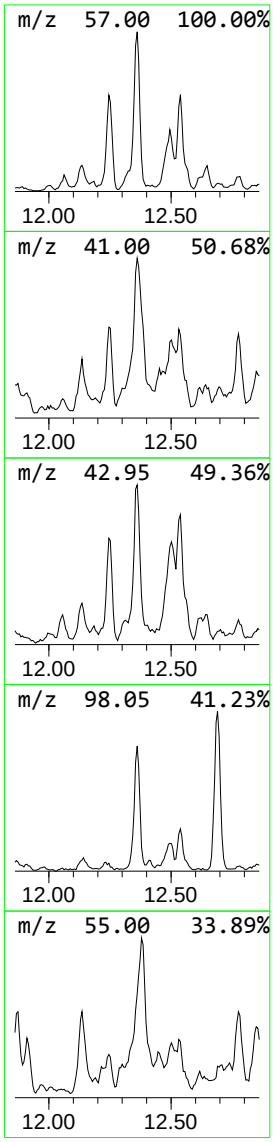
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.361 | 9.44 ug/L | 361718 | Chlorobenzene-d5 | 11.629 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 64 |
| 2 | Decyl isobutyl carbonate | 258 | C15H30O3 | 959226-07-4 | 50 |
| 3 | Heptane, 3-ethyl- | 128 | C9H20 | 015869-80-4 | 47 |
| 4 | Octane, 1,1'-oxybis- | 242 | C16H34O | 000629-82-3 | 38 |
| 5 | 1-Dodecene | 168 | C12H24 | 000112-41-4 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

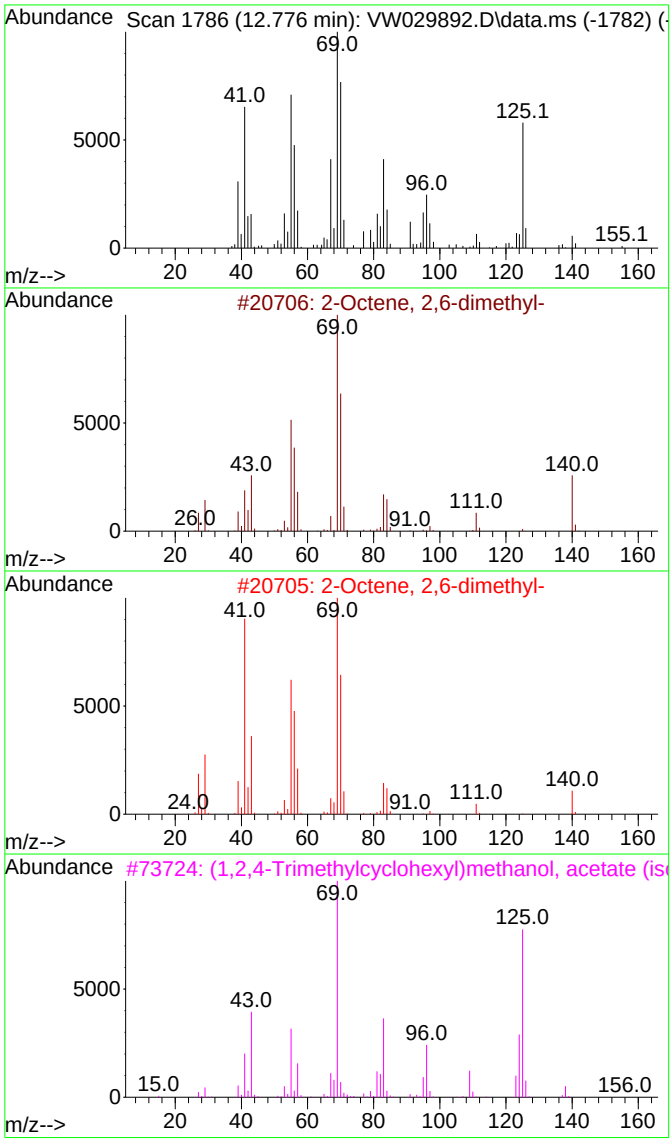
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

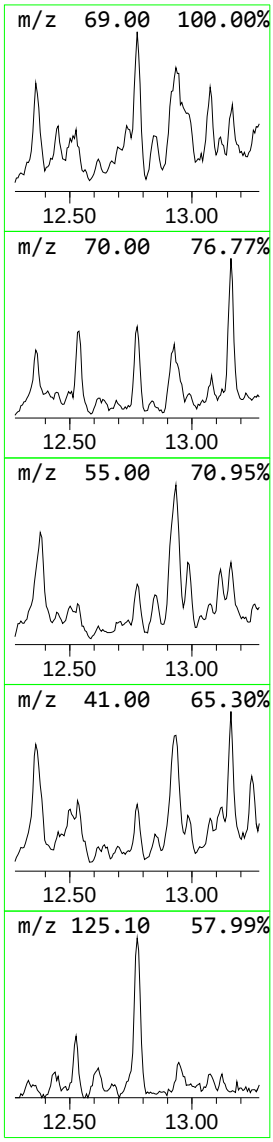
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.775 | 3.79 ug/L | 107827 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 55 |
| 2 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 55 |
| 3 | (1,2,4-Trimethylcyclohexyl)metha... | 198 | C12H22O2 | 1000499-04-5 | 43 |
| 4 | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20 | 062960-76-3 | 43 |
| 5 | trans-1-Butyl-2-methylcyclopropane | 112 | C8H16 | 038851-70-6 | 42 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

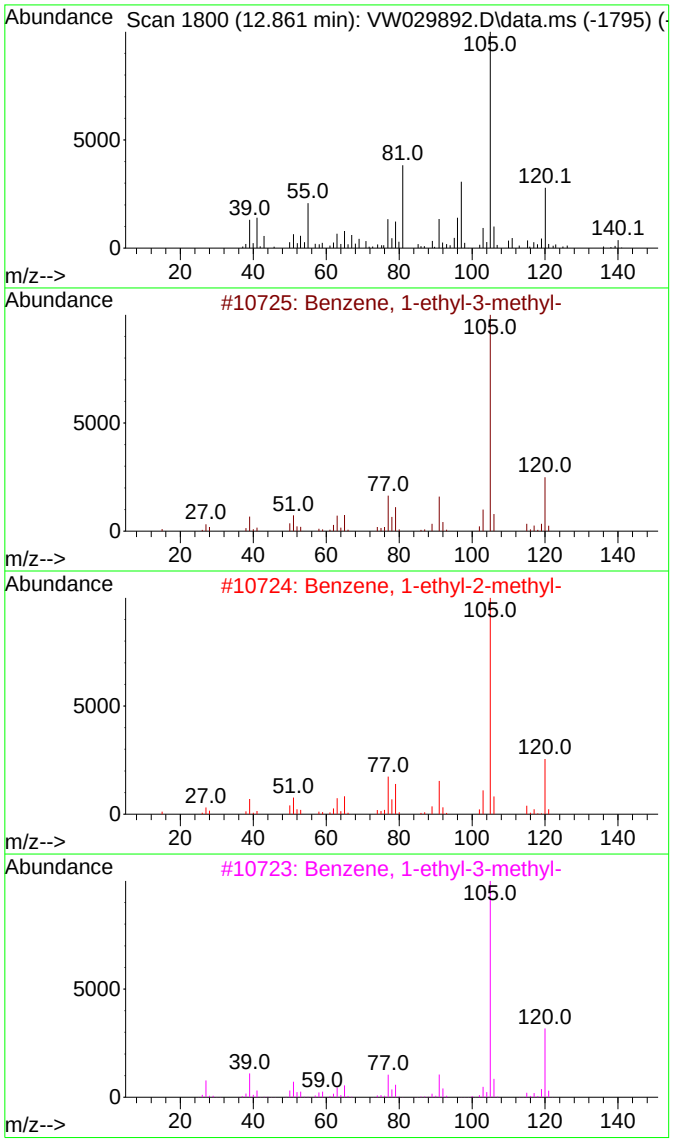
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

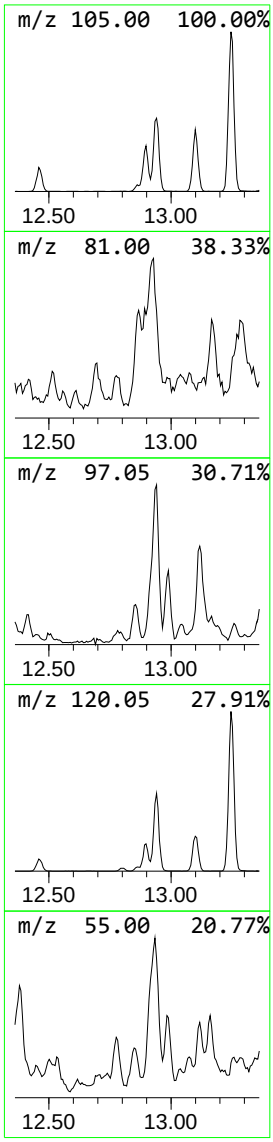
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 Benzene, 1-ethyl-3-methyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.861 | 2.22 ug/L | 63218 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 87 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 60 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 60 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 60 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

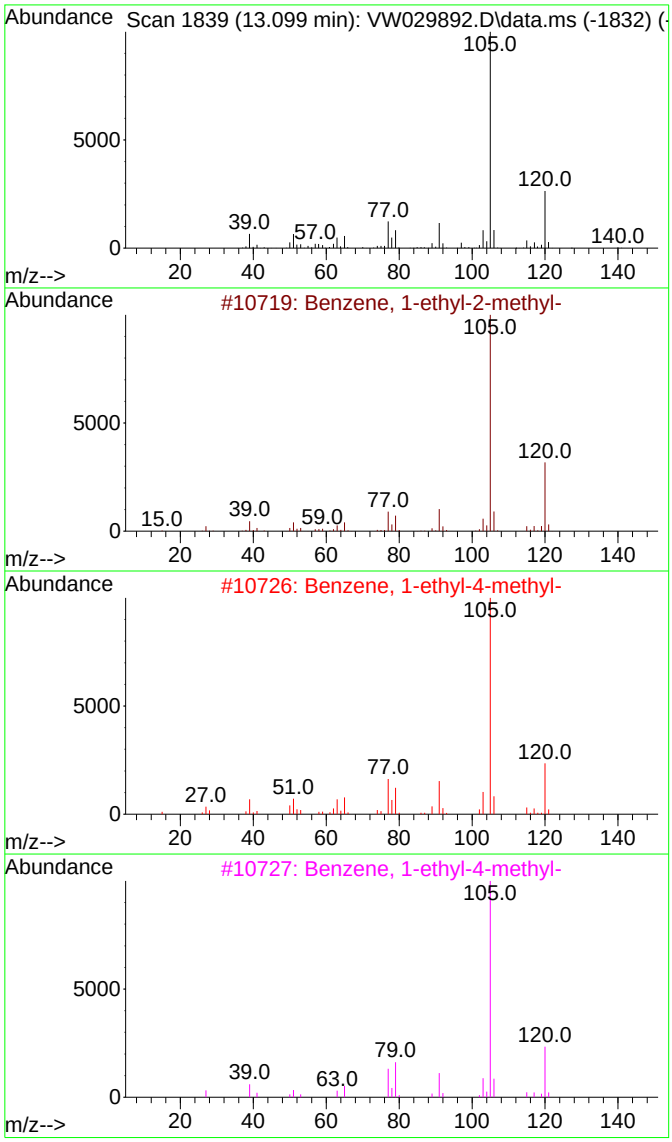
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

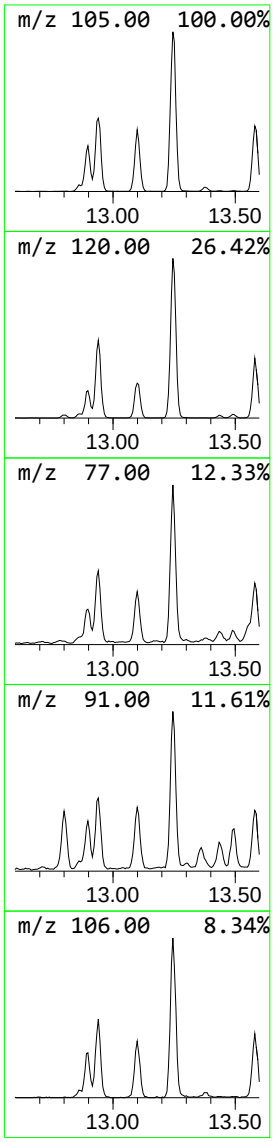
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.099 | 13.35 ug/L | 379267 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

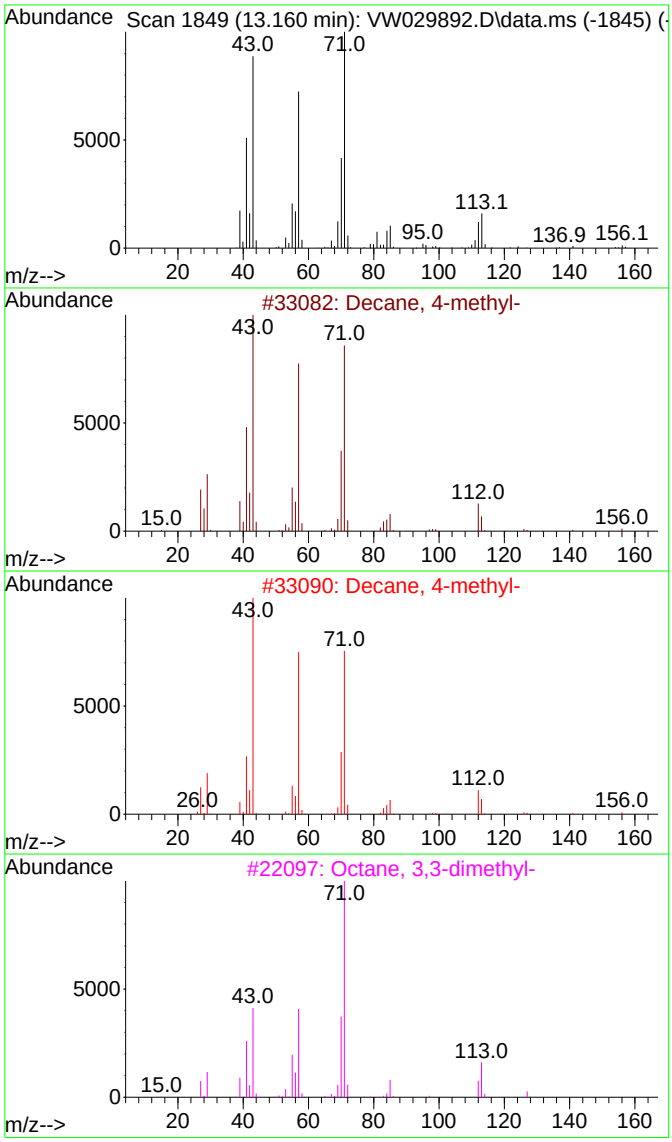
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

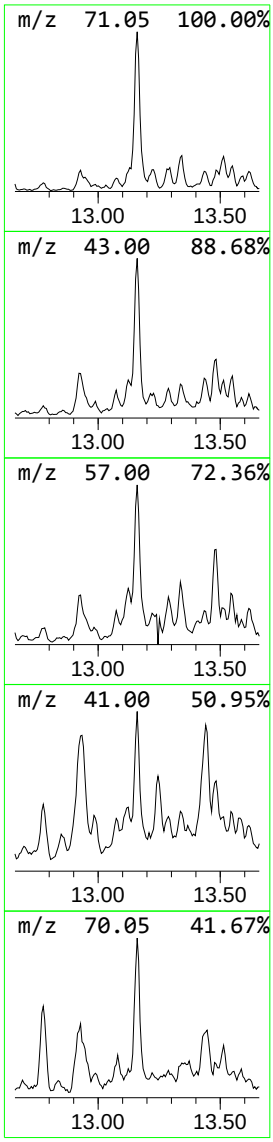
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.160 | 6.14 ug/L | 174576 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 90 |
| 2 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 87 |
| 3 | Octane, 3,3-dimethyl- | 142 | C10H22 | 004110-44-5 | 83 |
| 4 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 78 |
| 5 | Nonane, 2,6-dimethyl- | 156 | C11H24 | 017302-28-2 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

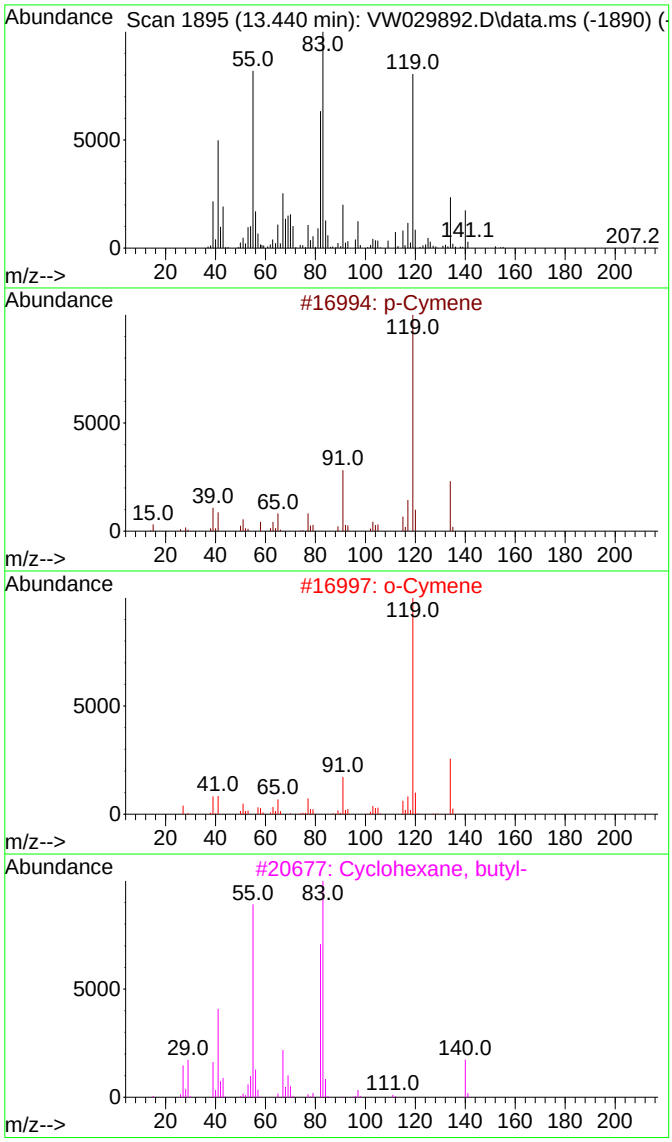
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

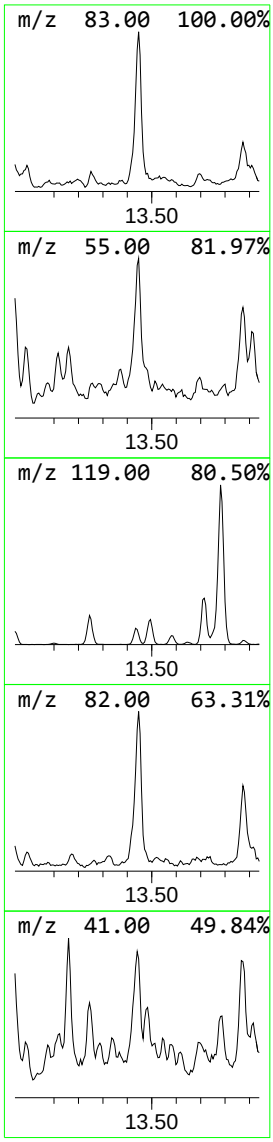
**********

Peak Number 10 p-Cymene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.440 | 7.63 ug/L | 216930 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 78 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 74 |
| 3 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 60 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 55 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 51 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

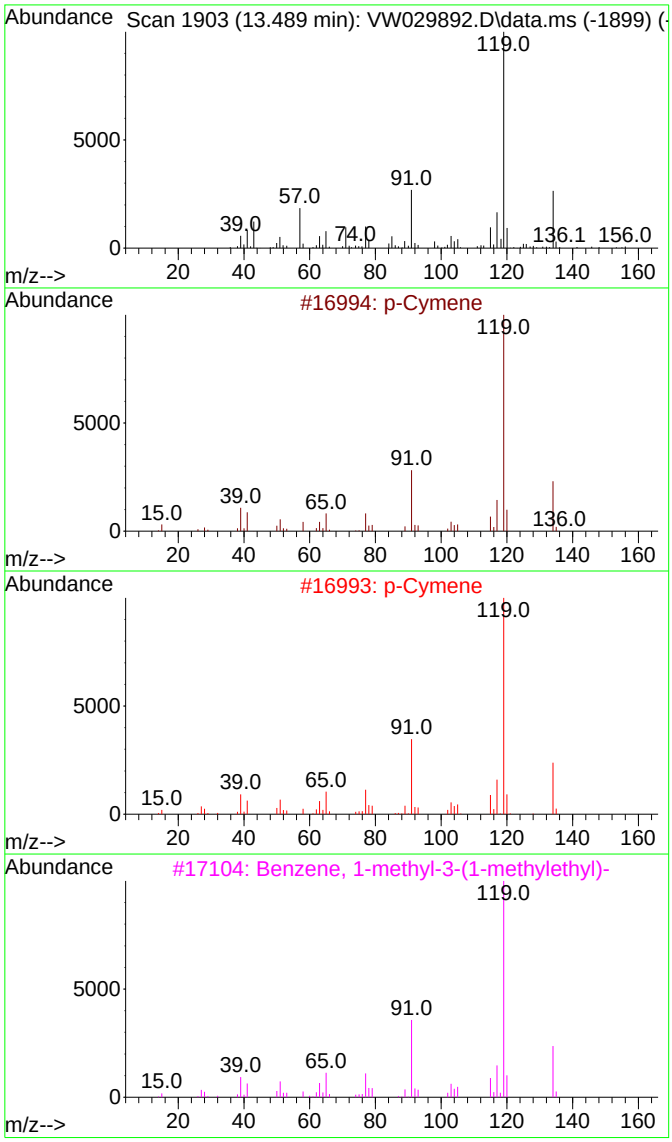
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

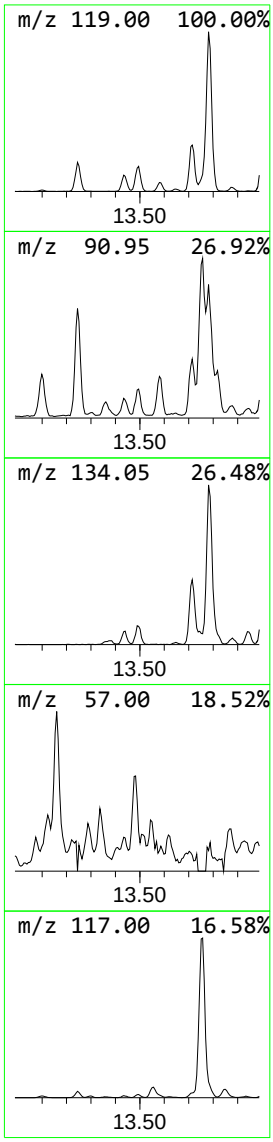
**********

Peak Number 11 o-Cymene Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.489 | 4.19 ug/L | 119172 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 95 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 93 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 90 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 90 |
| 5 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

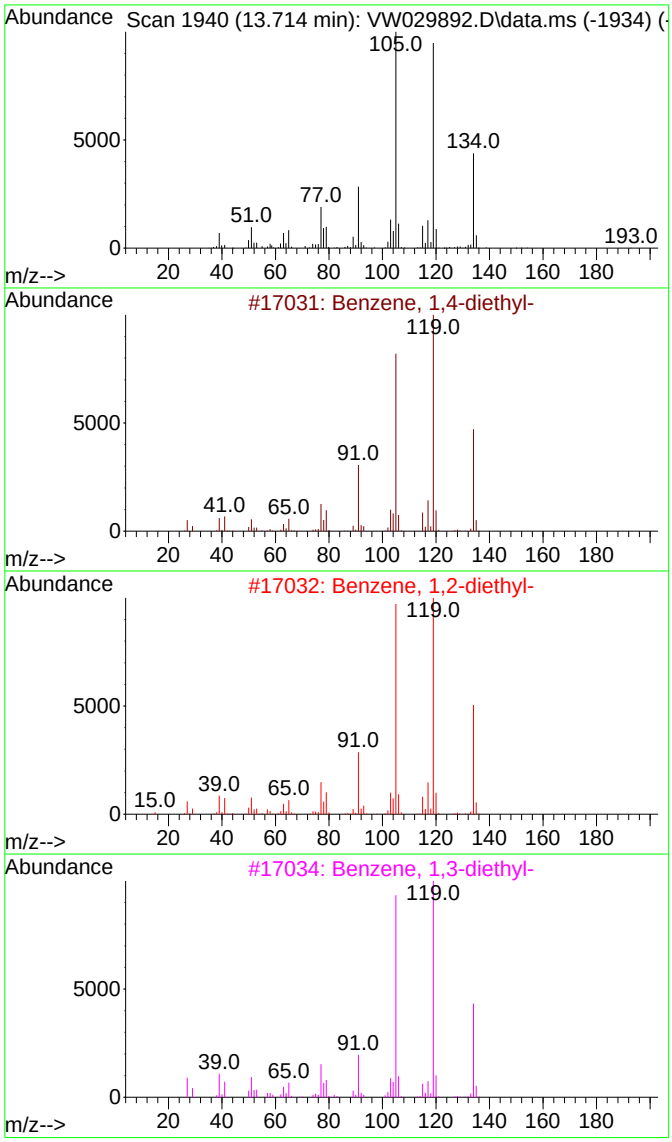
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

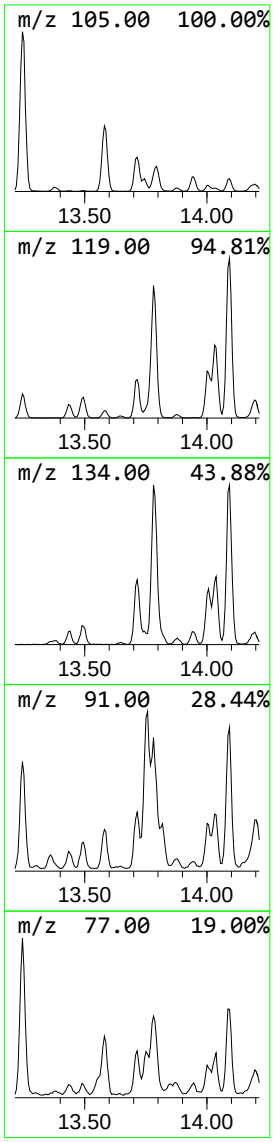
**********

Peak Number 12 Benzene, 1,4-diethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.714 | 10.75 ug/L | 305574 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 97 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 96 |
| 4 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 94 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

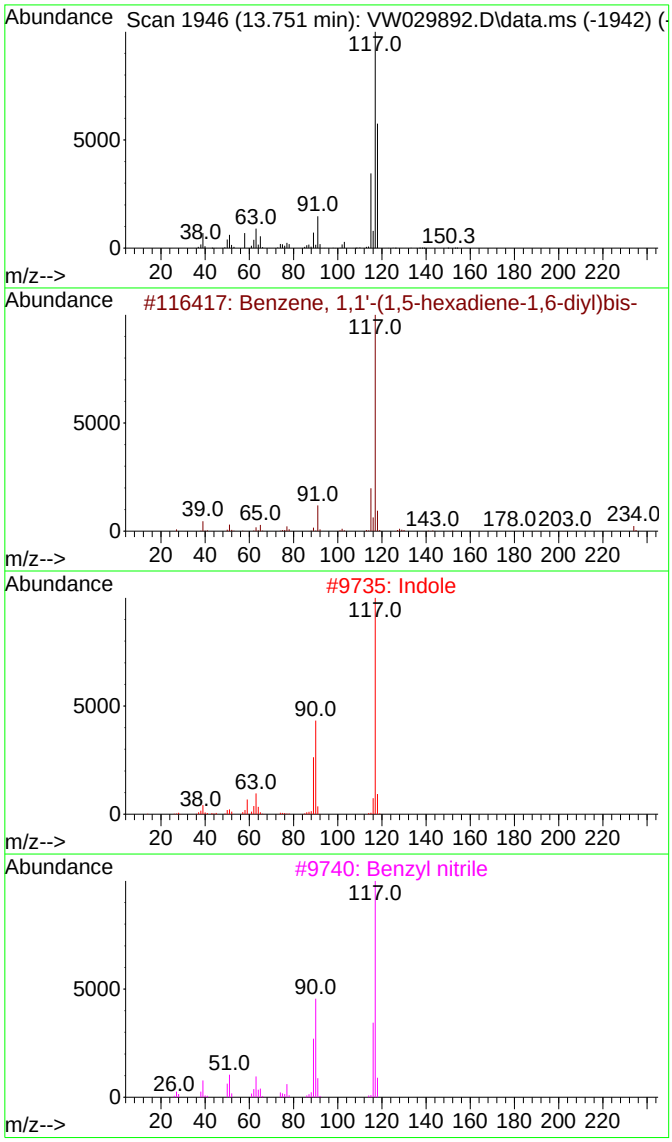
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

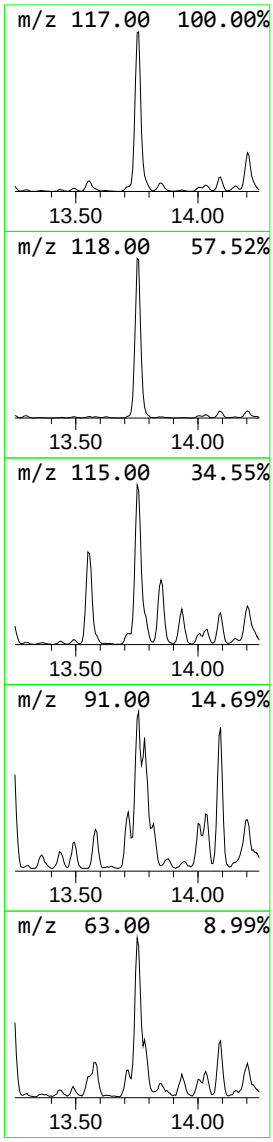
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 Benzene, 1,1'-(1,5-hexadien... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.751 | 26.40 ug/L | 750220 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 59 |
| 2 | Indole | 117 | C8H7N | 000120-72-9 | 49 |
| 3 | Benzyl nitrile | 117 | C8H7N | 000140-29-4 | 47 |
| 4 | Indole | 117 | C8H7N | 000120-72-9 | 47 |
| 5 | Benzene, (2-bromocyclopropyl)- | 196 | C9H9Br | 036617-02-4 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

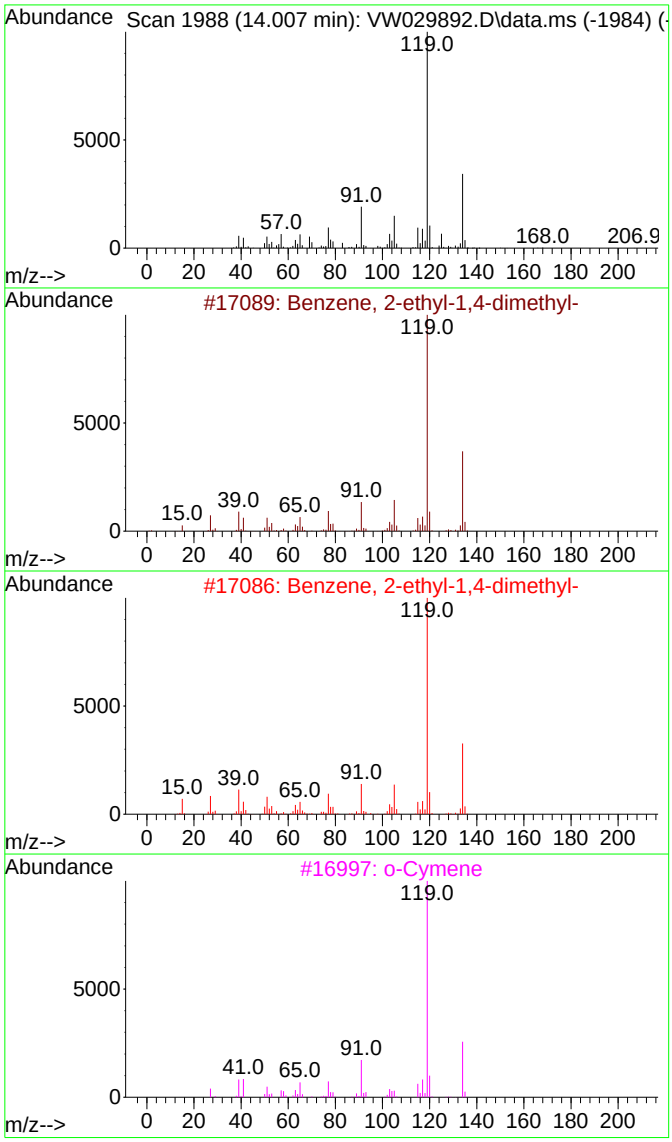
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

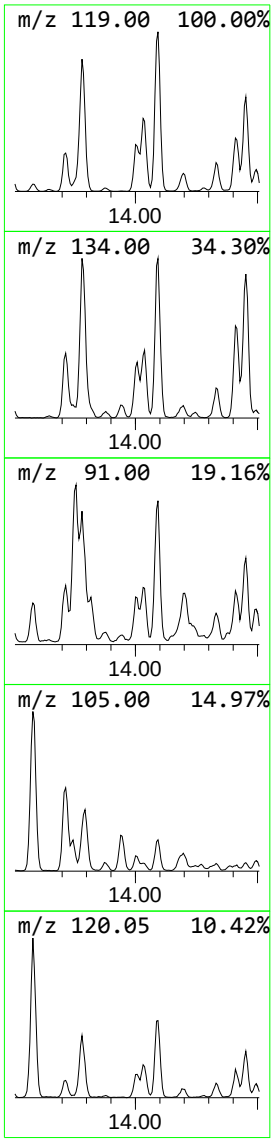
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.007 | 7.11 ug/L | 202122 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

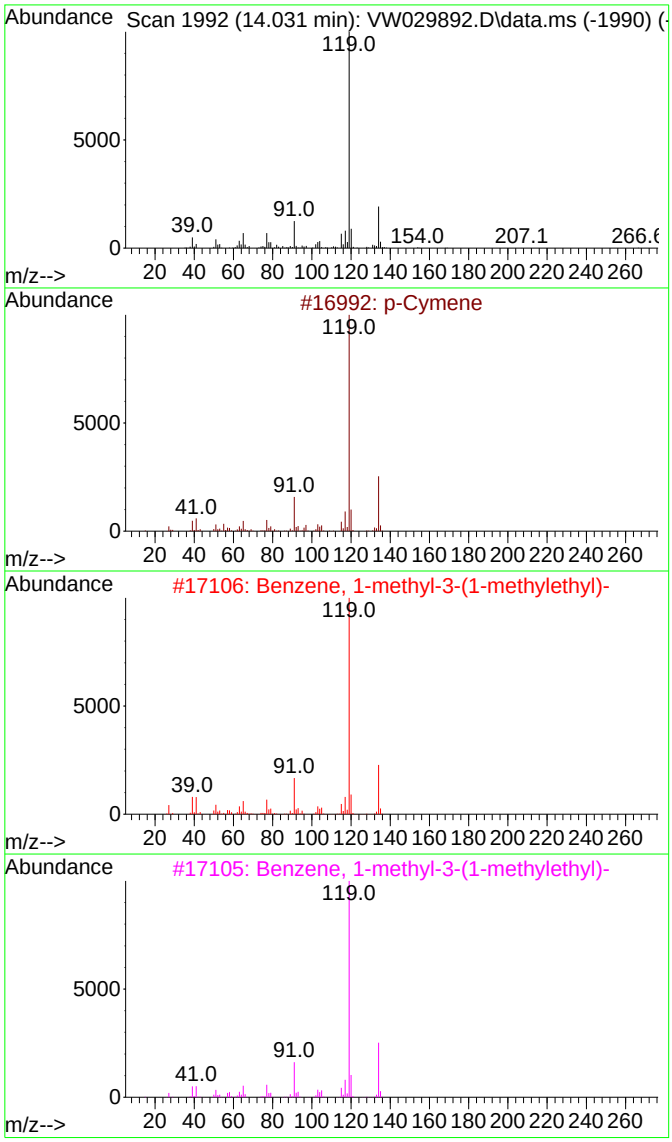
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

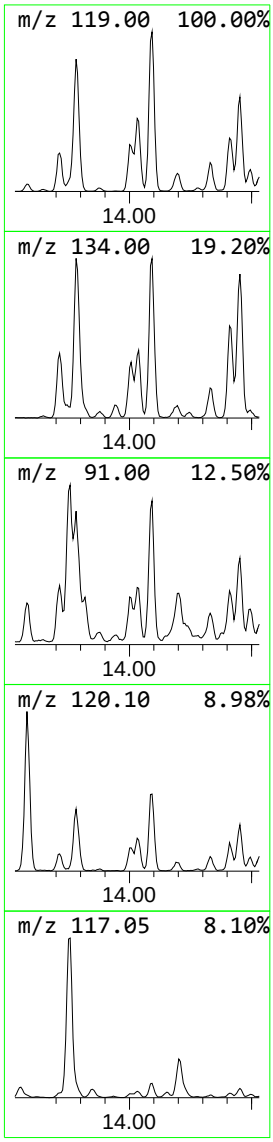
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Benzene, 1-methyl-3-(1-meth... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.031 | 8.27 ug/L | 234926 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 94 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 91 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

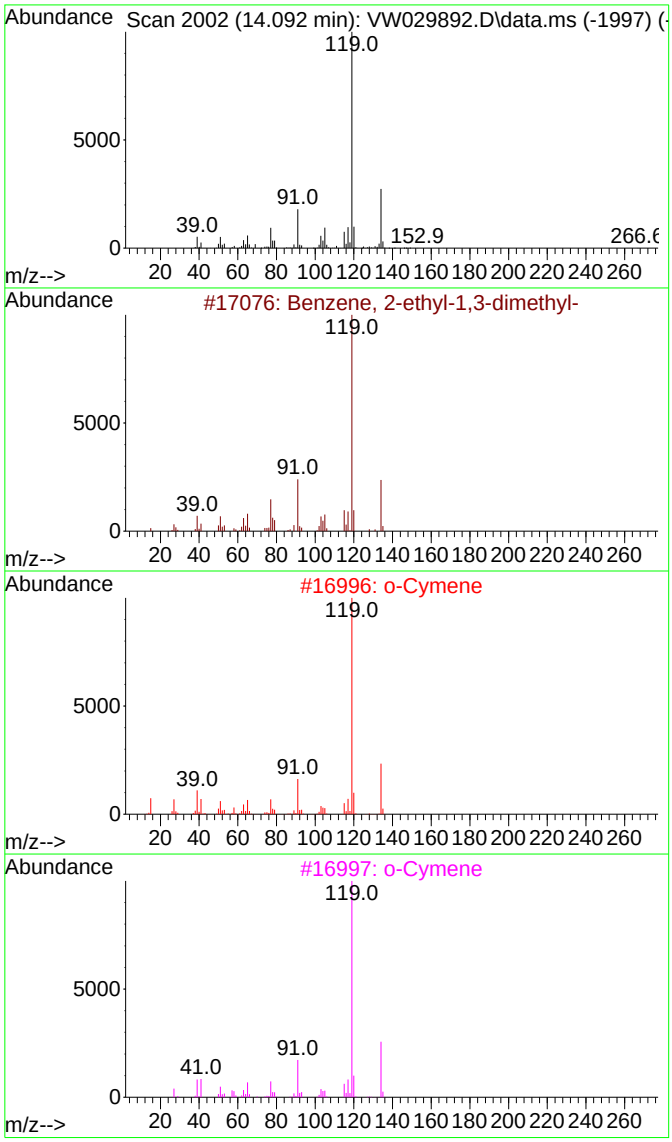
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

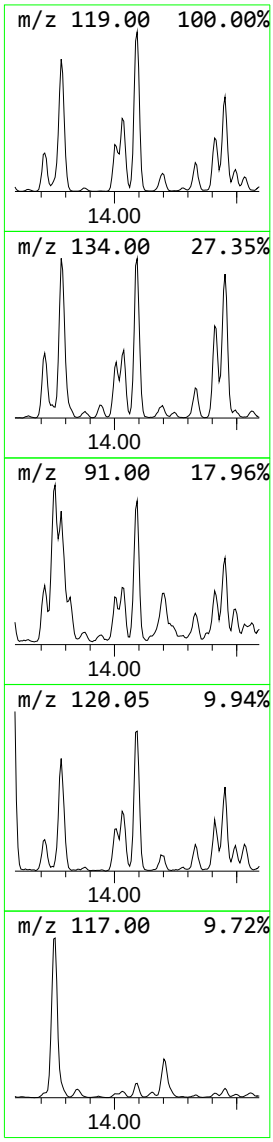
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.092 | 25.95 ug/L | 737491 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

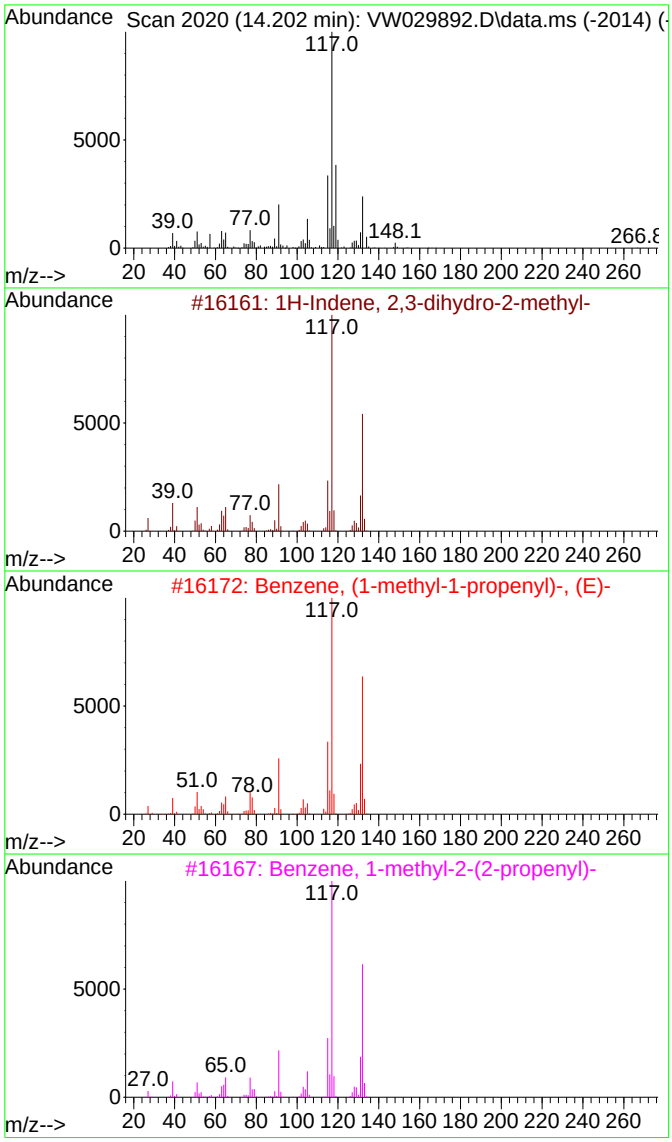
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

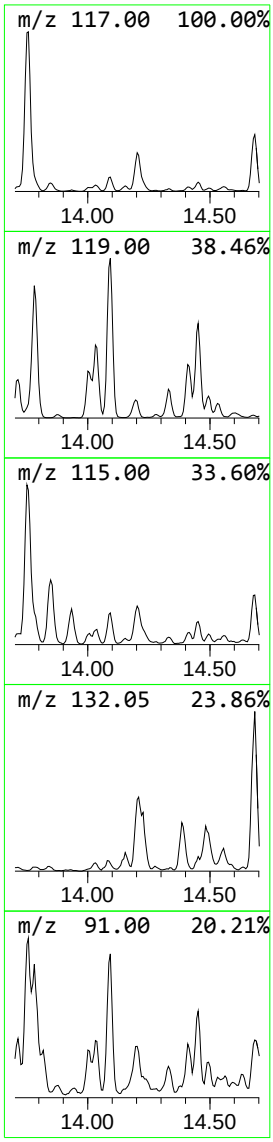
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 1H-Indene, 2,3-dihydro-2-me... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.202 | 12.50 ug/L | 355212 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 70 |
| 2 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 68 |
| 3 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 68 |
| 4 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 68 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 68 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

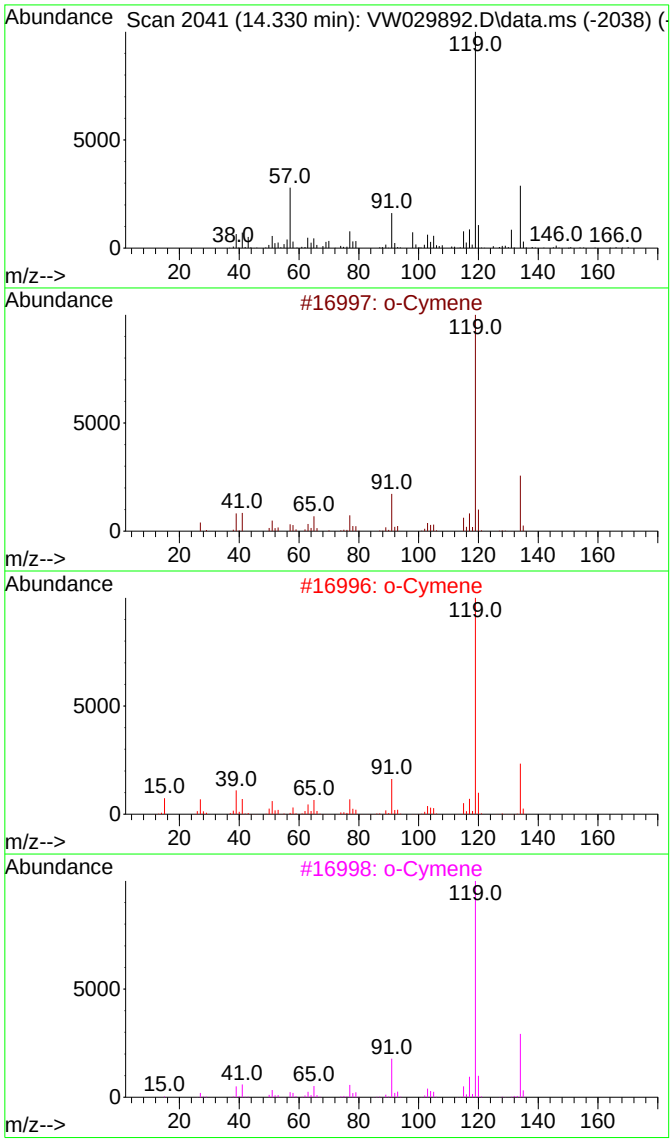
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

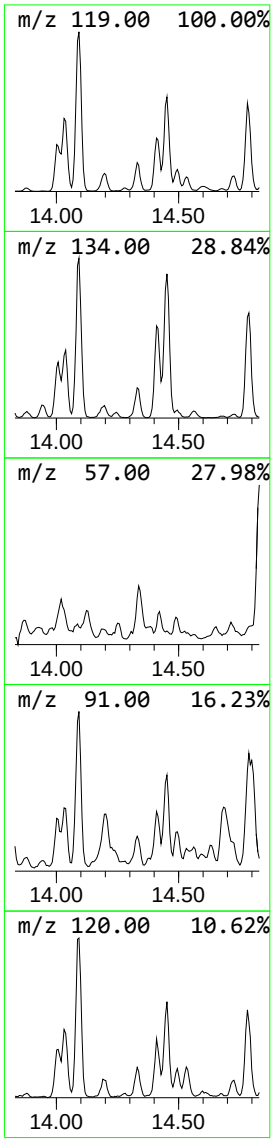
**********

Peak Number 18 unknown-01 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.330 | 4.03 ug/L | 114377 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

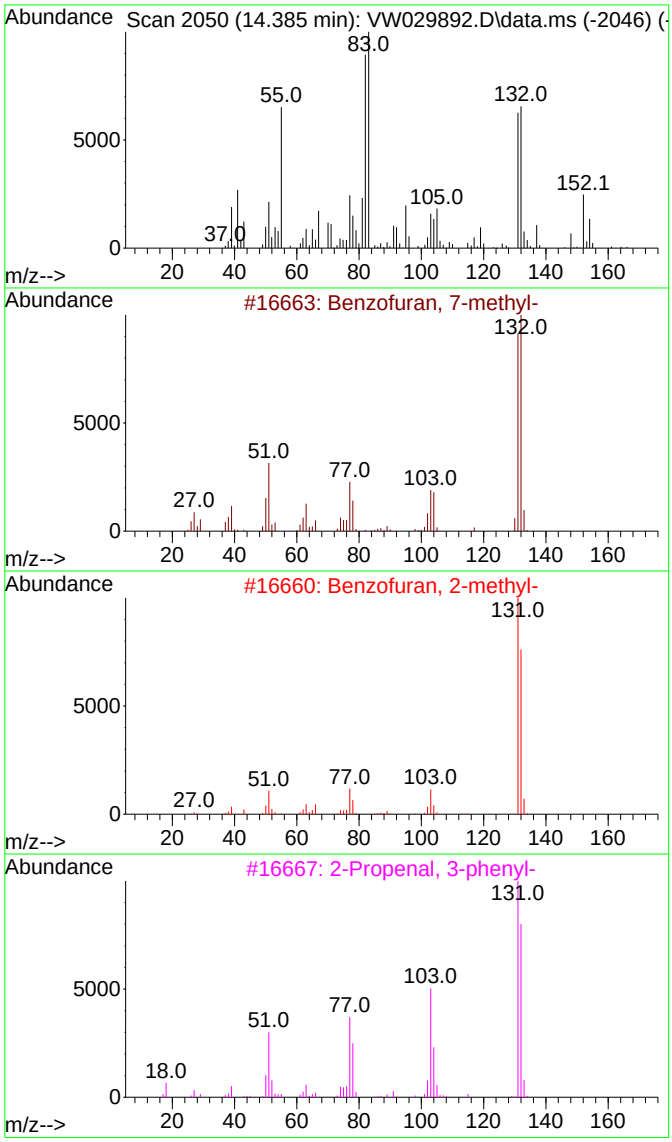
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

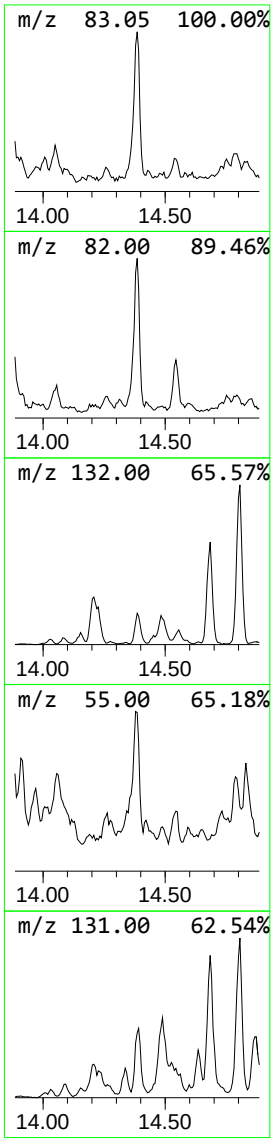
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 Benzofuran, 7-methyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.385 | 6.82 ug/L | 193818 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 7-methyl- | 132 | C9H8O | 017059-52-8 | 90 |
| 2 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 46 |
| 3 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 45 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 43 |
| 5 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

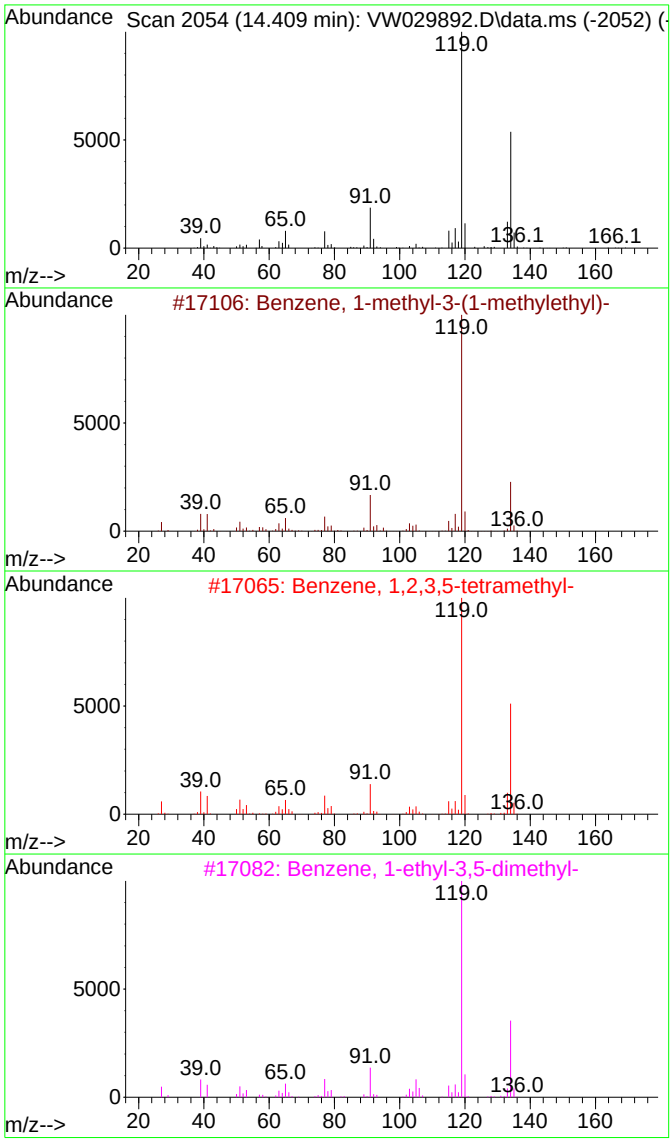
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

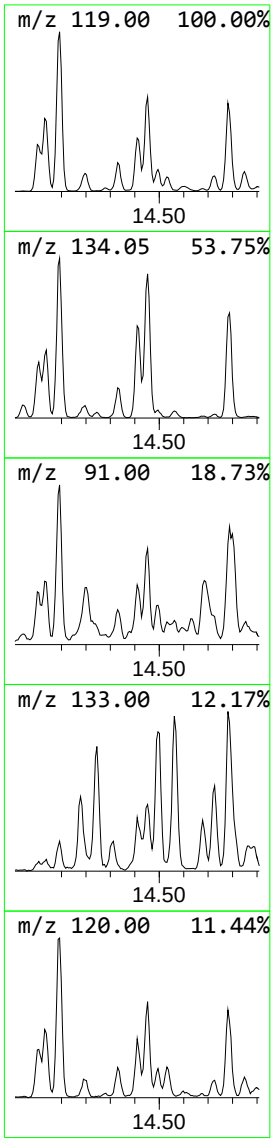
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.409 | 7.70 ug/L | 218905 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 91 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

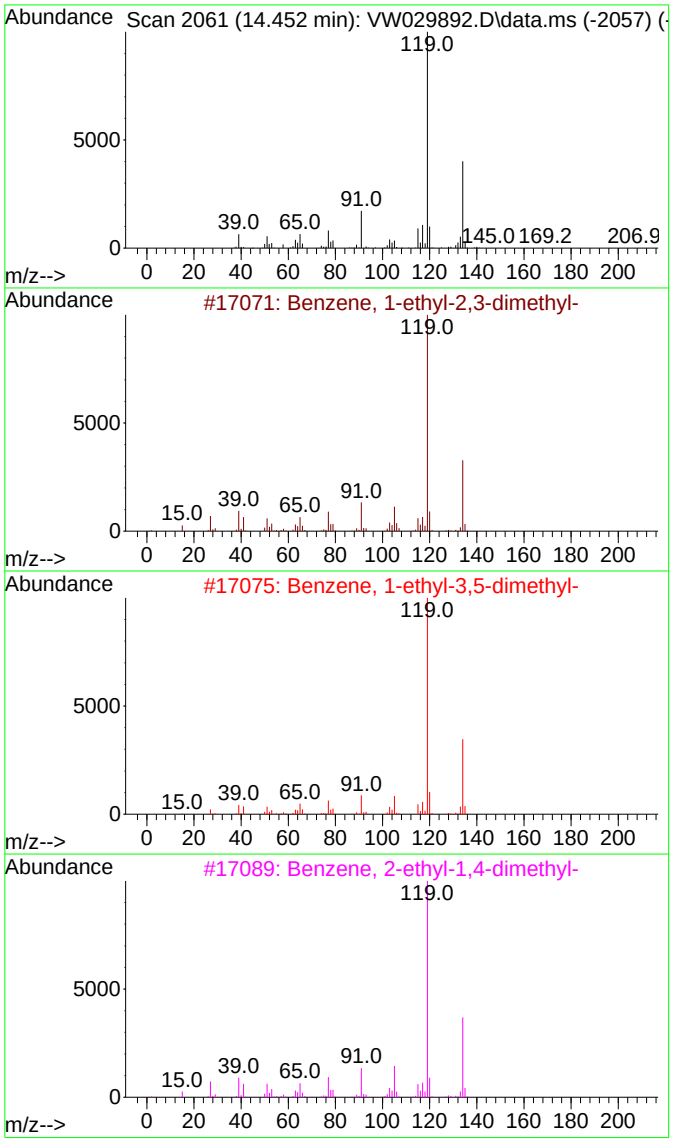
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

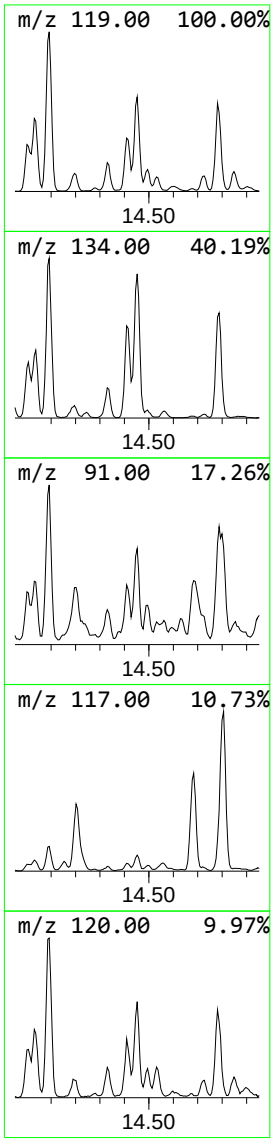
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 21 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.452 | 13.54 ug/L | 384691 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 2 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 91 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

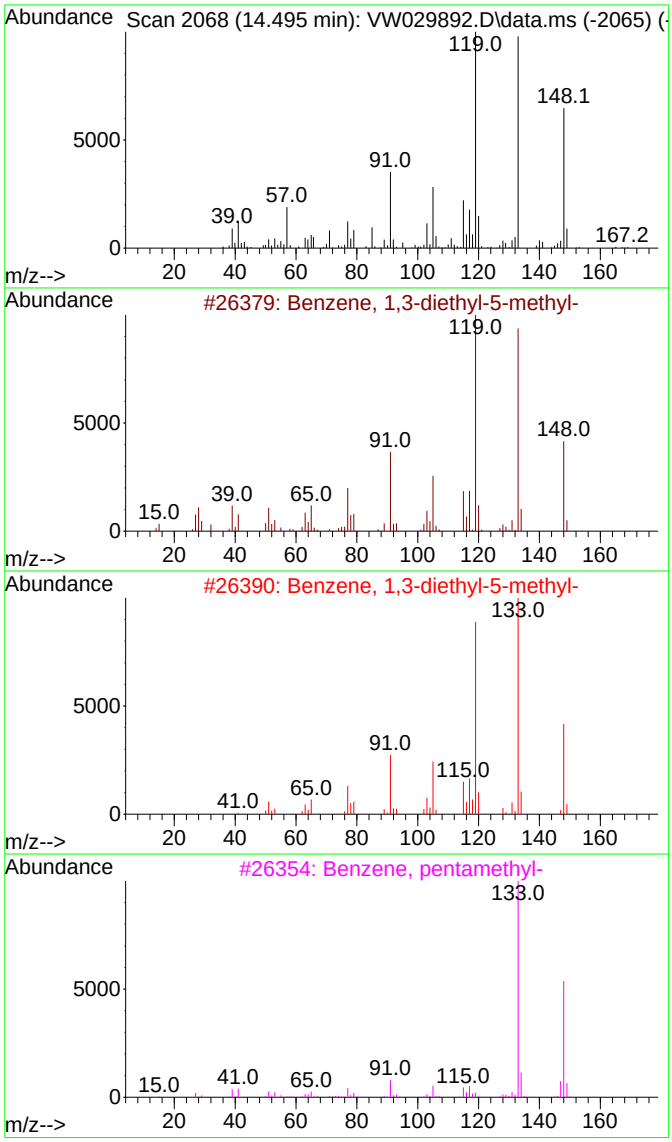
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

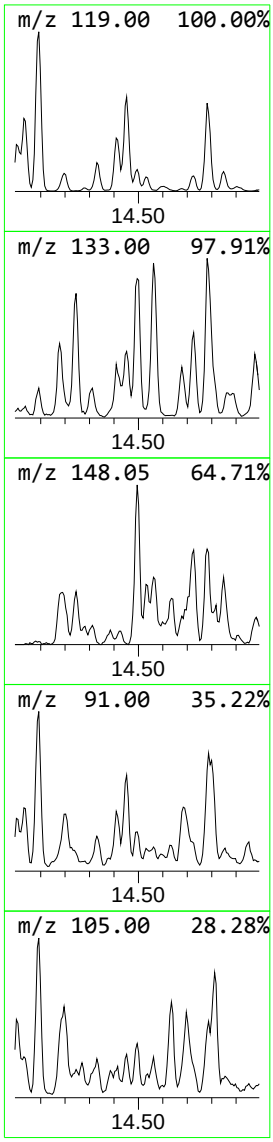
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 22 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.495 | 5.29 ug/L | 150186 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 91 |
| 2 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 90 |
| 3 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 60 |
| 4 | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16 | 001758-85-6 | 58 |
| 5 | Ethanone, 1-(2,4-dimethylphenyl)- | 148 | C10H12O | 000089-74-7 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

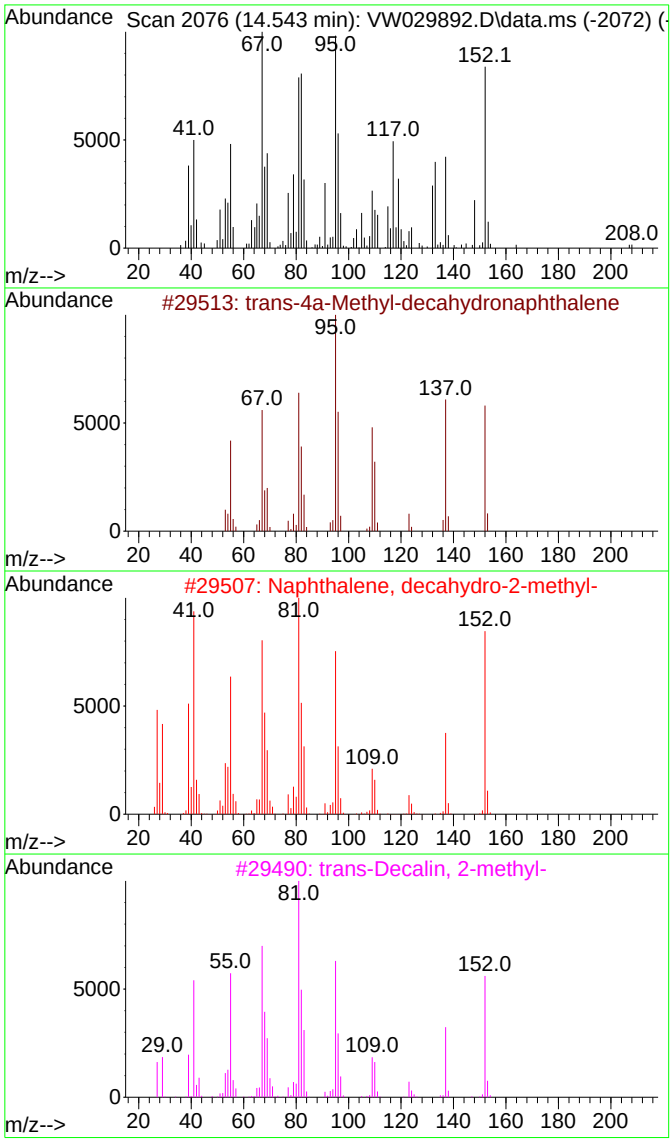
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

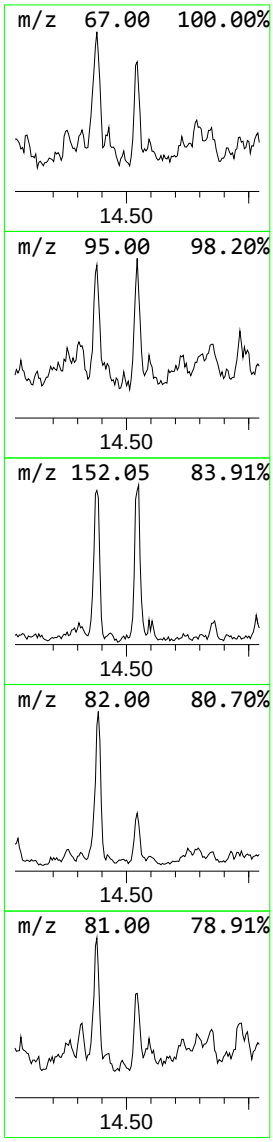
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 trans-4a-Methyl-decahydrona... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.544 | 5.62 ug/L | 159806 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20 | 002547-27-5 | 78 |
| 2 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 70 |
| 3 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 55 |
| 4 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 45 |
| 5 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

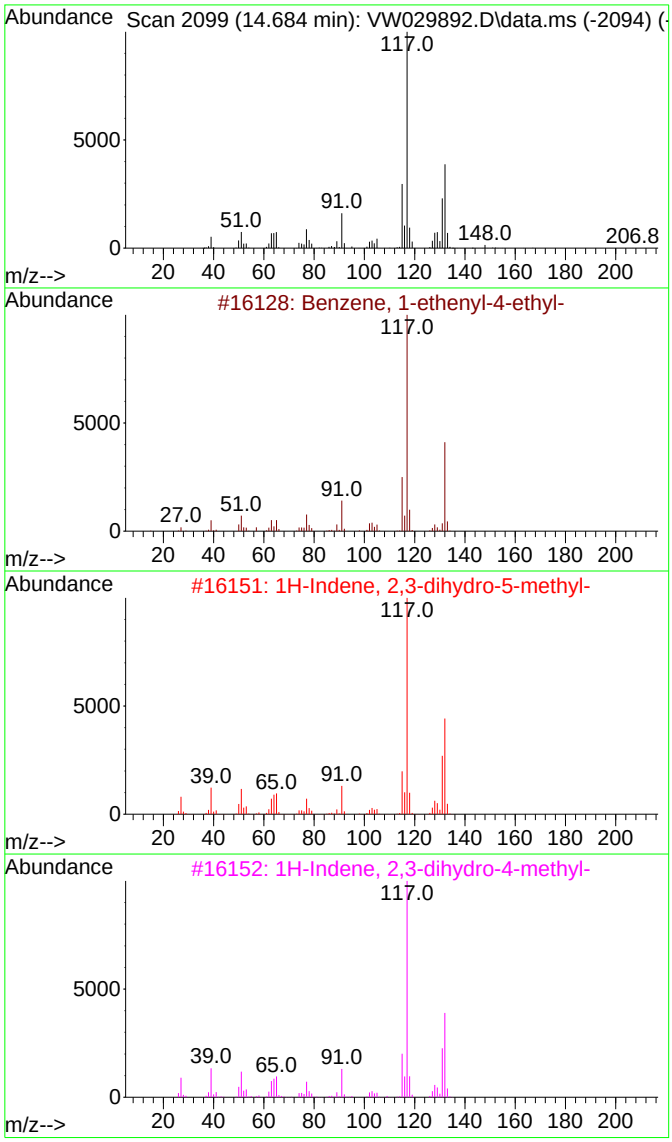
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

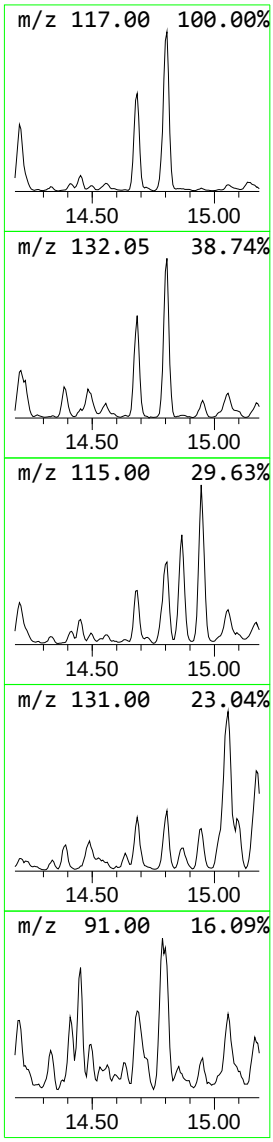
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.684 | 12.00 ug/L | 340886 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 93 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 93 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 91 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 91 |
| 5 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

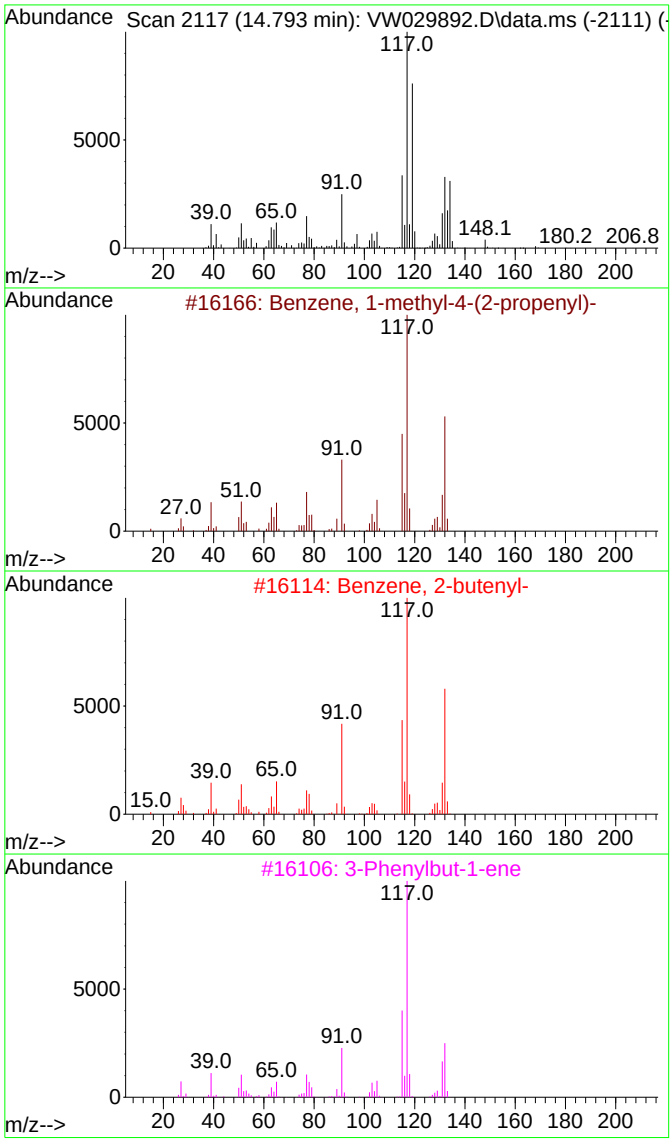
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

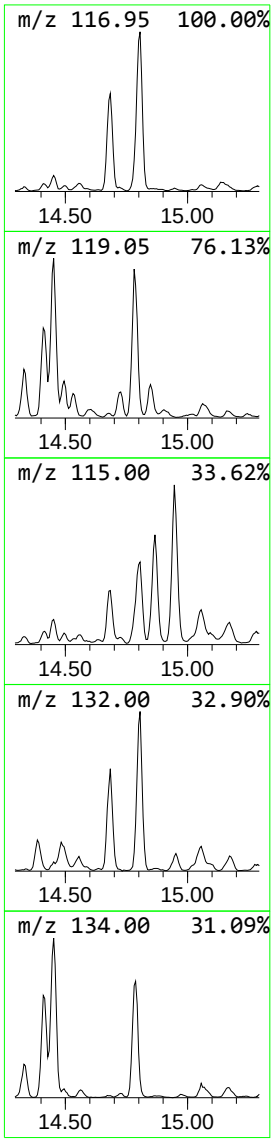
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 Benzene, 1-methyl-4-(2-prop... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.794 | 41.32 ug/L | 1174030 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 80 |
| 2 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 70 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 55 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 55 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 55 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

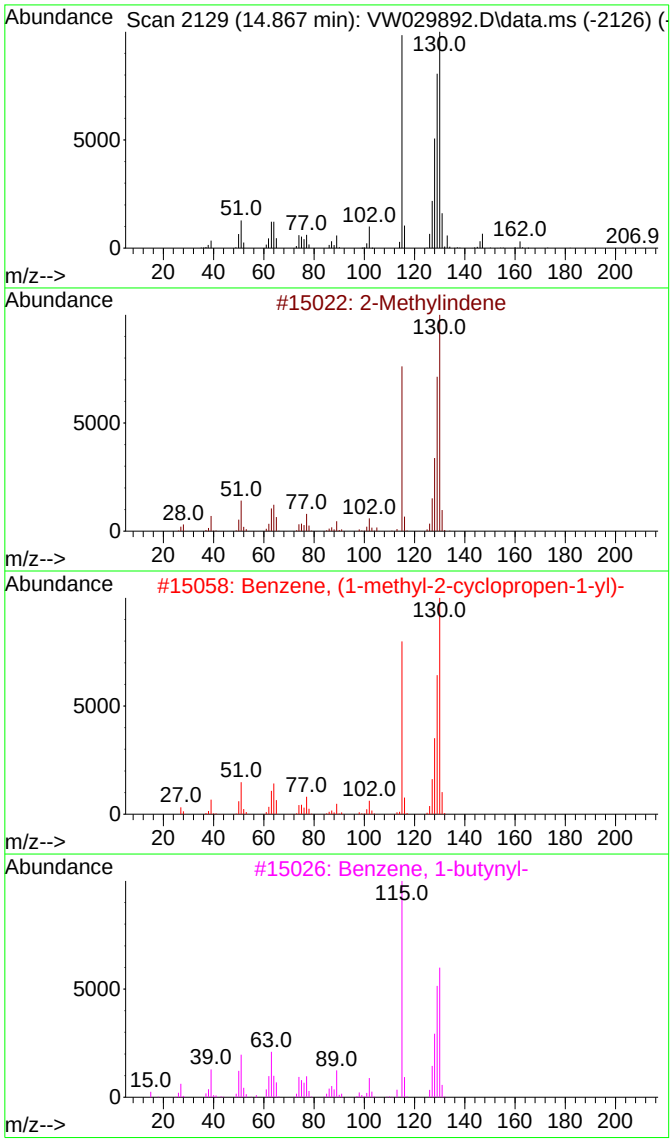
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

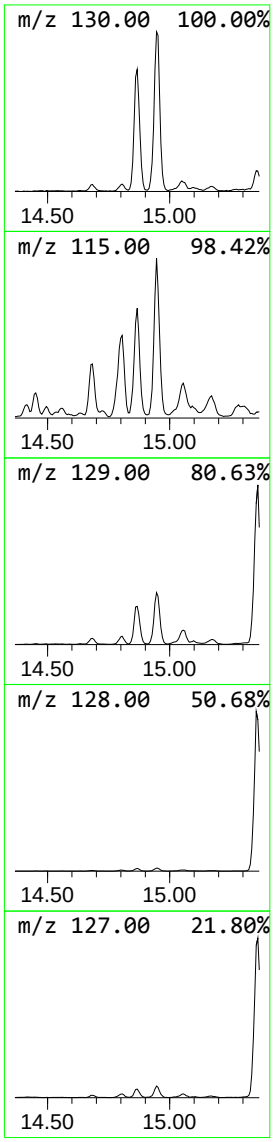
**********

Peak Number 26 2-Methylindene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.867 | 13.23 ug/L | 375839 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 95 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 94 |
| 3 | Benzene, 1-butynyl- | 130 | C10H10 | 000622-76-4 | 94 |
| 4 | Benzene, 1-butynyl- | 130 | C10H10 | 000622-76-4 | 94 |
| 5 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

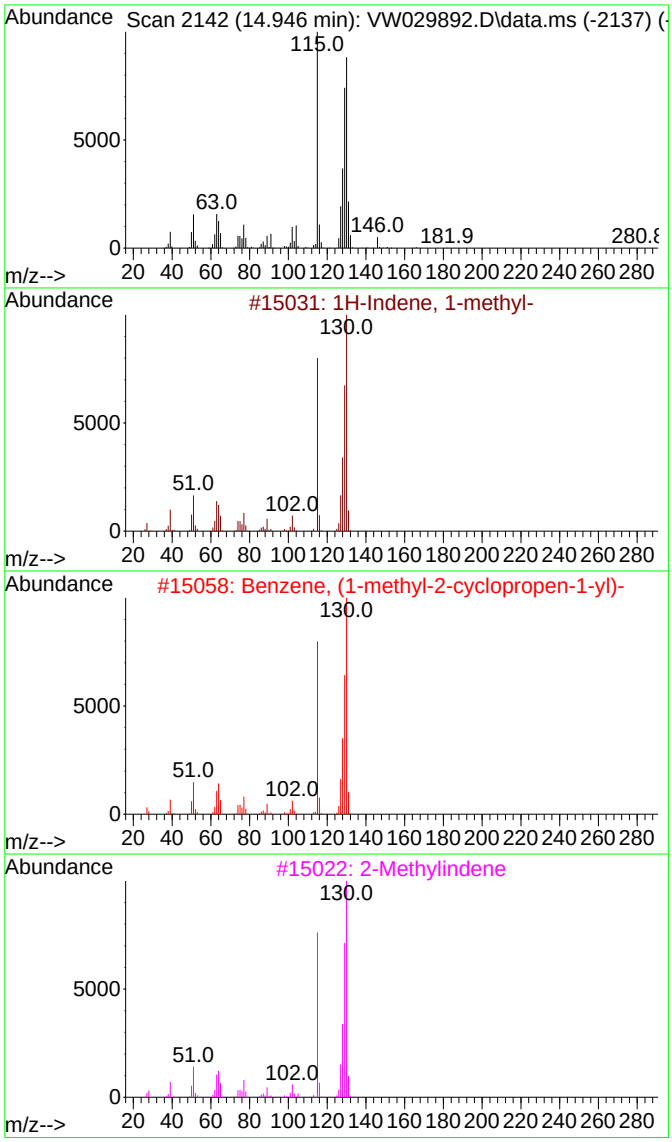
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

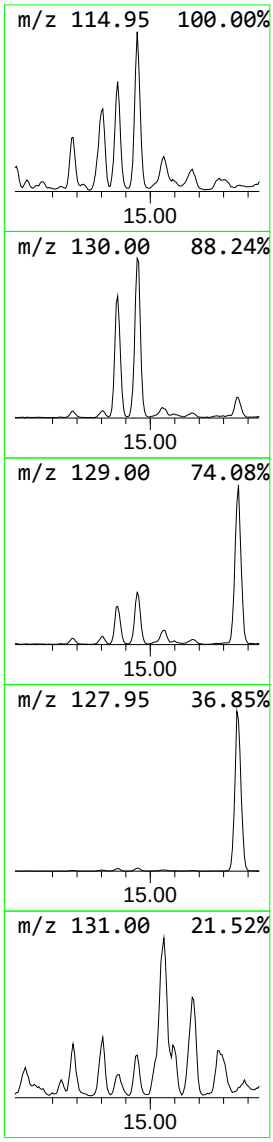
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 1H-Indene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.946 | 18.21 ug/L | 517376 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 96 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 95 |
| 3 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 94 |
| 4 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 93 |
| 5 | 1H-Indene, 3-methyl- | 130 | C10H10 | 000767-60-2 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

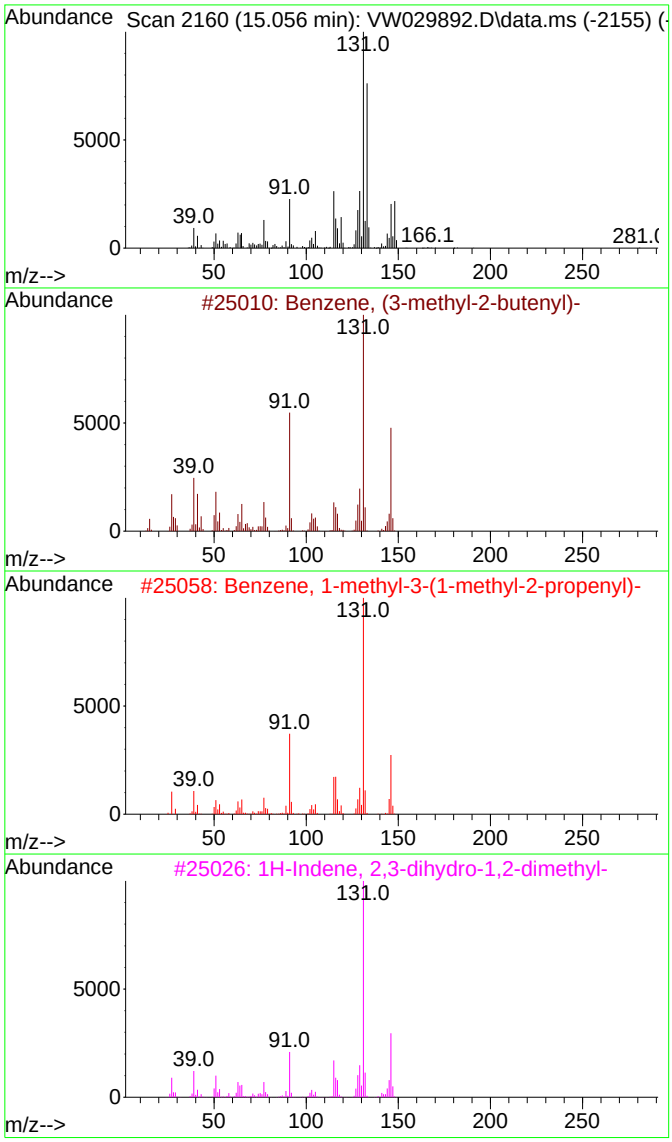
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

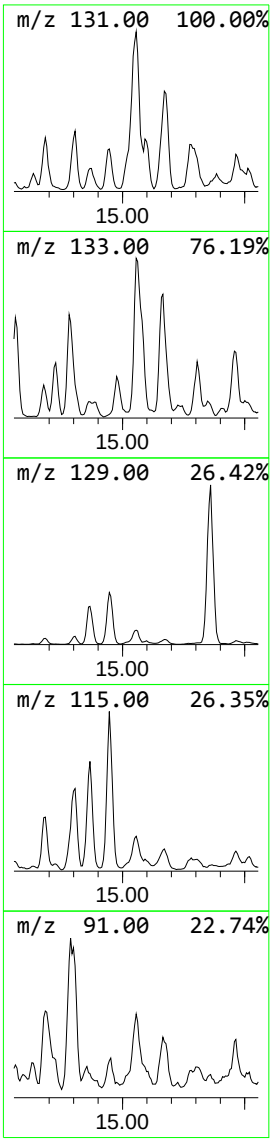
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 Benzene, (3-methyl-2-butenyl)- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.056 | 17.50 ug/L | 497227 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 55 |
| 2 | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14 | 052161-57-6 | 50 |
| 3 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 50 |
| 4 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 50 |
| 5 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

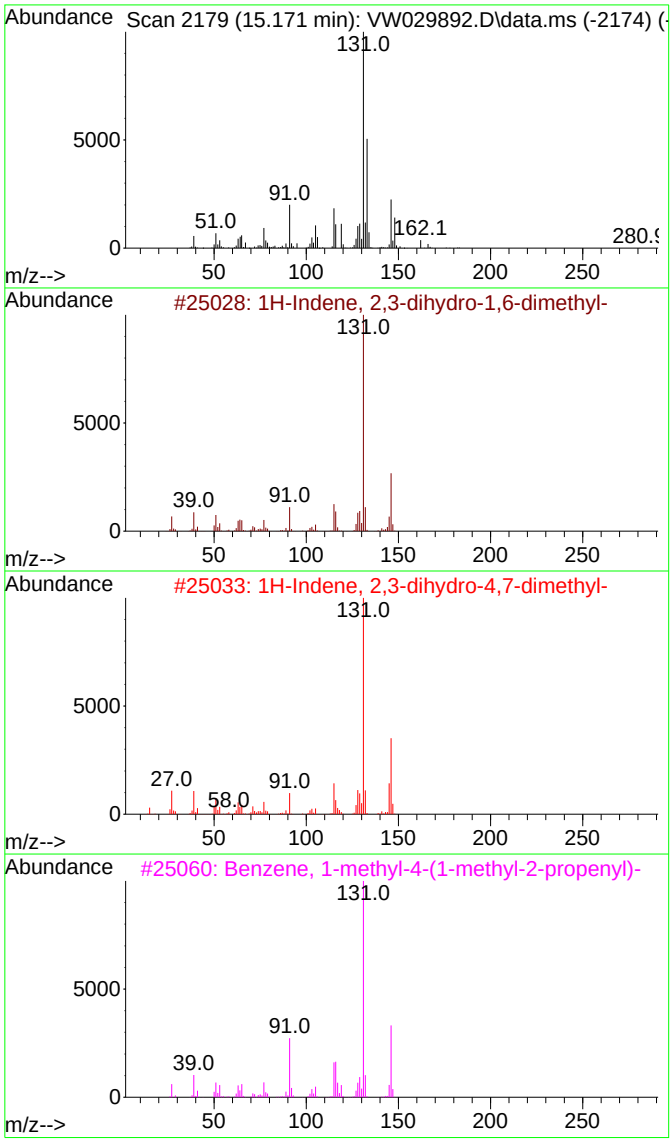
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

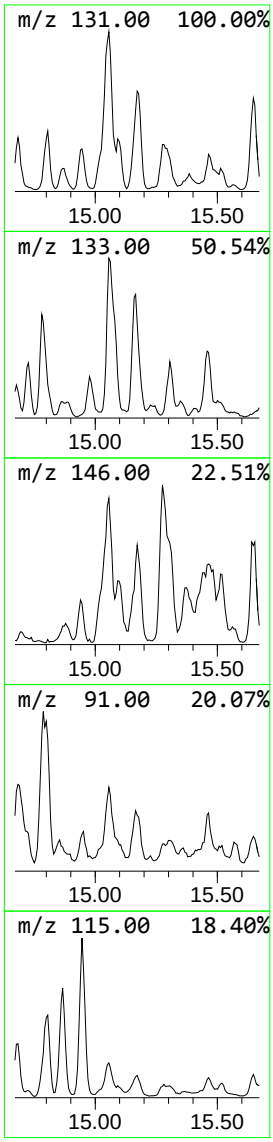
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.171 | 9.11 ug/L | 258946 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 64 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 64 |
| 3 | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14 | 097664-18-1 | 64 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 64 |
| 5 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

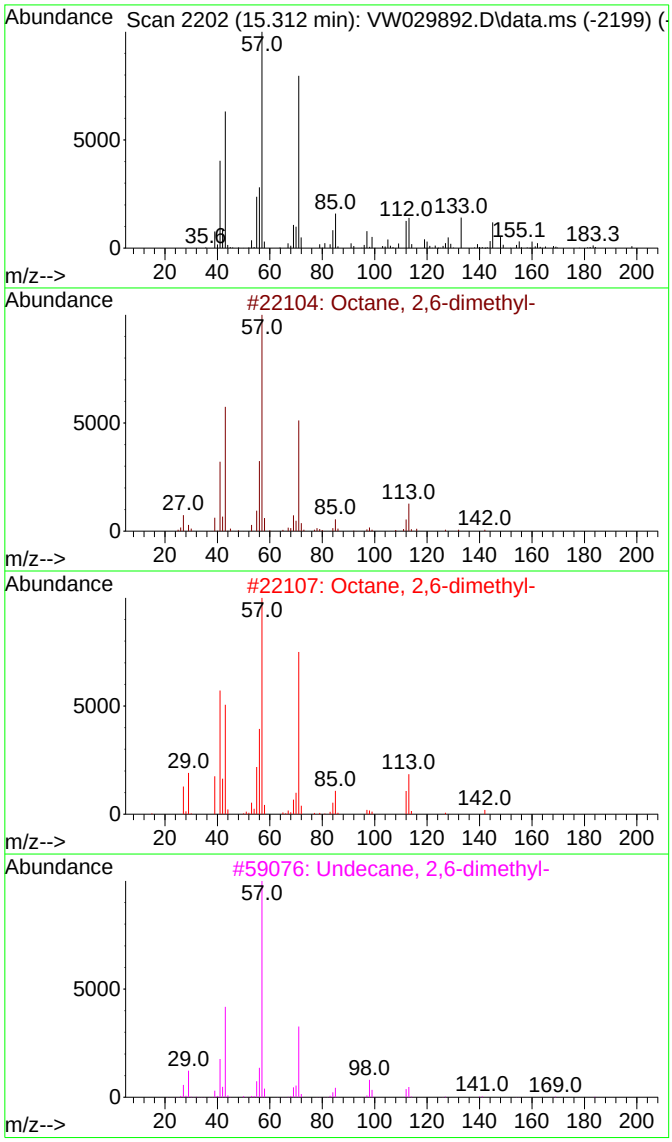
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

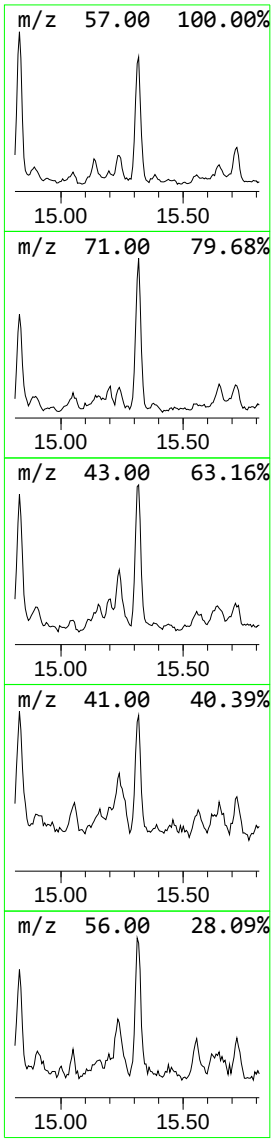
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.312 | 5.09 ug/L | 144757 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 72 |
| 2 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 64 |
| 3 | Undecane, 2,6-dimethyl- | 184 | C13H28 | 017301-23-4 | 62 |
| 4 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 62 |
| 5 | Oxalic acid, 2-ethylhexyl nonyl ... | 328 | C19H36O4 | 1000309-39-2 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

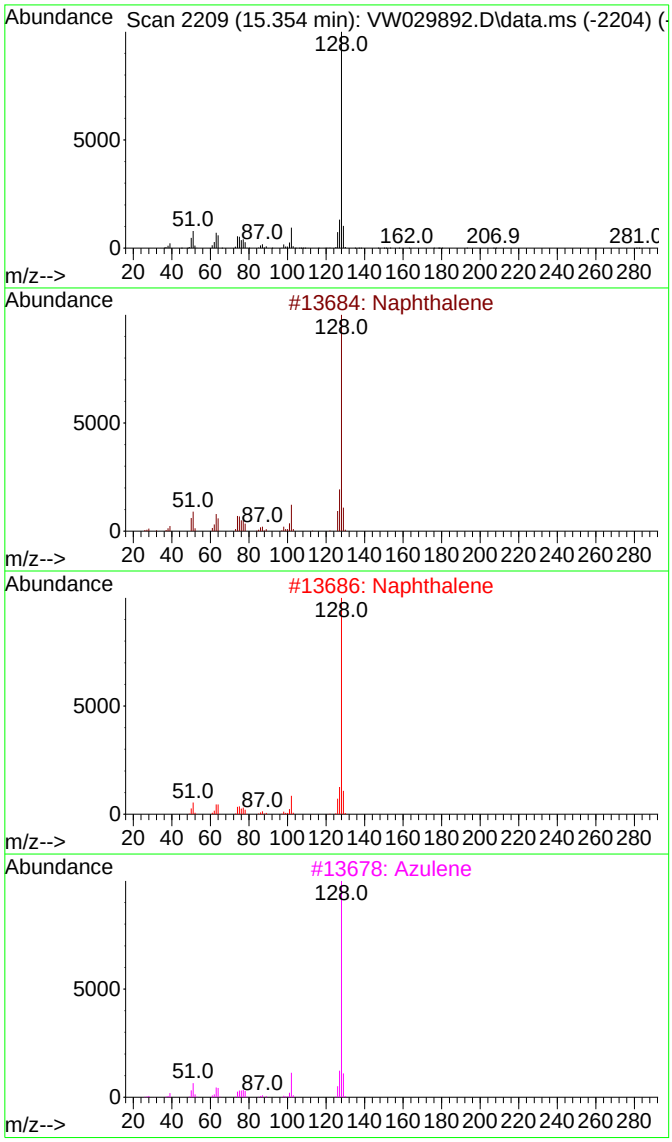
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

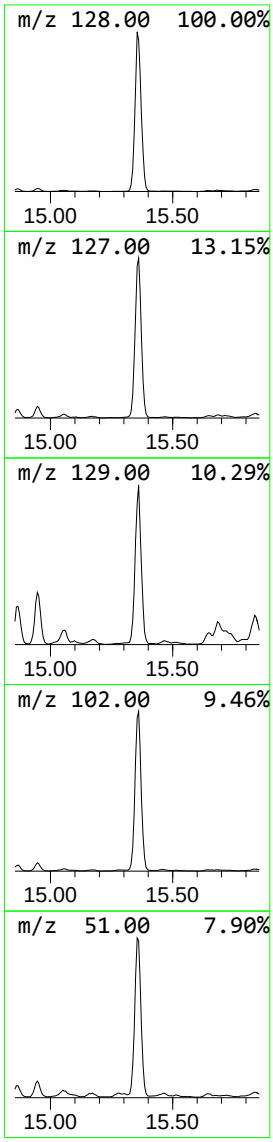
**********

Peak Number 31 Azulene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.354 | 151.83 ug/L | 4314200 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 97 |
| 2 | Naphthalene | 128 | C10H8 | 000091-20-3 | 95 |
| 3 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |
| 4 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |
| 5 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

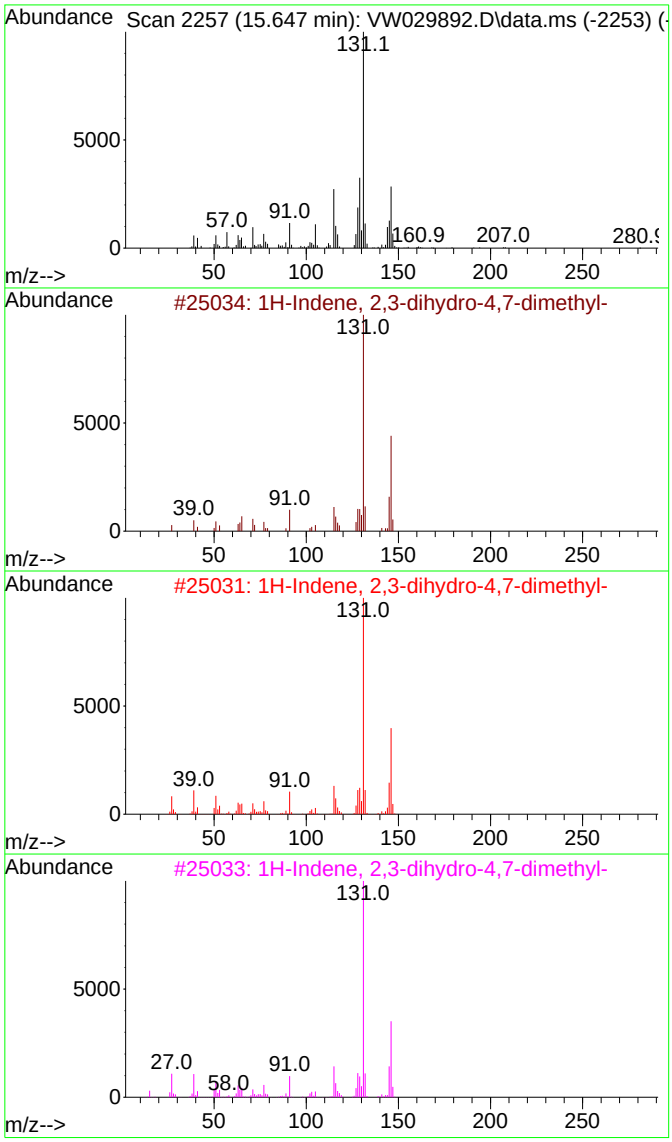
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

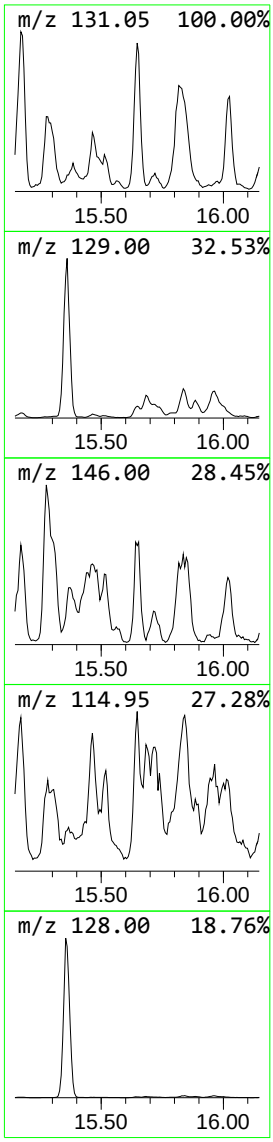
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 32 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.647 | 6.13 ug/L | 174124 | 1,4-Dichlorobenzene-d4 | 13.556 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 81 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 81 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 81 |
| 4 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 80 |
| 5 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 74 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081224\
Data File : VW029892.D
Acq On : 12 Aug 2024 15:12
Operator : SY/MD
Sample : P3481-07
Misc : 5.38g/10mL/MSVOA_W/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
E0AE9

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
Quant Title : SFAM01.0

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: S... | 12.245 | 2.1 | ug/L | 81569 | 2 | 11.629 | 958417 | 25.0 |
| (DEL) Alkane: S... | 12.361 | 9.4 | ug/L | 361718 | 2 | 11.629 | 958417 | 25.0 |
| (DEL) Alkane: S... | 12.775 | 3.8 | ug/L | 107827 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-ethy... | 12.861 | 2.2 | ug/L | 63218 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-ethy... | 13.099 | 13.4 | ug/L | 379267 | 3 | 13.556 | 710368 | 25.0 |
| (DEL) Alkane: S... | 13.160 | 6.1 | ug/L | 174576 | 3 | 13.556 | 710368 | 25.0 |
| p-Cymene | 13.440 | 7.6 | ug/L | 216930 | 3 | 13.556 | 710368 | 25.0 |
| o-Cymene | 13.489 | 4.2 | ug/L | 119172 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1,4-di... | 13.714 | 10.8 | ug/L | 305574 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1,1'-(... | 13.751 | 26.4 | ug/L | 750220 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 2-ethy... | 14.007 | 7.1 | ug/L | 202122 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-meth... | 14.031 | 8.3 | ug/L | 234926 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 2-ethy... | 14.092 | 25.9 | ug/L | 737491 | 3 | 13.556 | 710368 | 25.0 |
| 1H-Indene, 2,3-... | 14.202 | 12.5 | ug/L | 355212 | 3 | 13.556 | 710368 | 25.0 |
| unknown-01 | 14.330 | 4.0 | ug/L | 114377 | 3 | 13.556 | 710368 | 25.0 |
| Benzofuran, 7-m... | 14.385 | 6.8 | ug/L | 193818 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1,2,3,... | 14.409 | 7.7 | ug/L | 218905 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-ethy... | 14.452 | 13.5 | ug/L | 384691 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1,3-di... | 14.495 | 5.3 | ug/L | 150186 | 3 | 13.556 | 710368 | 25.0 |
| trans-4a-Methyl... | 14.544 | 5.6 | ug/L | 159806 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-ethe... | 14.684 | 12.0 | ug/L | 340886 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, 1-meth... | 14.794 | 41.3 | ug/L | 1174030 | 3 | 13.556 | 710368 | 25.0 |
| 2-Methylindene | 14.867 | 13.2 | ug/L | 375839 | 3 | 13.556 | 710368 | 25.0 |
| 1H-Indene, 1-me... | 14.946 | 18.2 | ug/L | 517376 | 3 | 13.556 | 710368 | 25.0 |
| Benzene, (3-met... | 15.056 | 17.5 | ug/L | 497227 | 3 | 13.556 | 710368 | 25.0 |
| 1H-Indene, 2,3-... | 15.171 | 9.1 | ug/L | 258946 | 3 | 13.556 | 710368 | 25.0 |
| (DEL) Alkane: S... | 15.312 | 5.1 | ug/L | 144757 | 3 | 13.556 | 710368 | 25.0 |
| Azulene | 15.354 | 151.8 | ug/L | 4314200 | 3 | 13.556 | 710368 | 25.0 |
| 1H-Indene, 2,3-... | 15.647 | 6.1 | ug/L | 174124 | 3 | 13.556 | 710368 | 25.0 |